

IMMEDIATE RESPONSE ACTION STATUS REPORT NO. 6

**Kiley Barrel Site Off-Property Locations
Somerville, Massachusetts
Release Tracking Number 3-28464**

Prepared for:

City of Somerville
Office of Strategic Planning & Community Development
93 Highland Avenue
Somerville, Massachusetts 02143

Prepared by:

TRC Environmental Corporation
Wannalancit Mills
650 Suffolk Street
Lowell, Massachusetts 01854

February 21, 2011

TABLE OF CONTENTS

1.0	INTRODUCTION.....	1-1
2.0	SITE DESCRIPTION.....	2-1
2.1	Site Description.....	2-1
2.1.1	Former Kiley Barrel Property	2-1
2.1.2	Off-Property Locations	2-1
2.2	Background	2-2
2.3	Reason Why Immediate Response Action is Required	2-3
3.0	STATUS OF IMMEDIATE RESPONSE ACTIONS.....	3-1
3.1.1	Results of Air Sampling.....	3-1
4.0	REMEDIATION WASTE	4-1
5.0	IMMEDIATE RESPONSE ACTION SCHEDULE.....	5-1
6.0	SUMMARY AND CONCLUSIONS	6-1
7.0	REFERENCES.....	7-1

FIGURES

Figure 1 – Site Location Map

Figure 2 – Groundwater, Soil Vapor, and Indoor Air Sample Location Map

TABLES

Table 1 – Summary of Analytical Results for Soil Gas Samples – 2009 through 2011

Table 2 – Summary of Analytical Results for Indoor Air Samples – 2009 through 2011

APPENDICES

Appendix A – Laboratory Analytical Reports

Appendix B - Correspondence

1.0 INTRODUCTION

On behalf of the City of Somerville (the “City”), TRC Environmental Corporation (TRC) prepared this Immediate Response Action (IRA) Status Report No. 6 to document IRA activities relative to potential indoor air Critical Exposure Pathway (CEP) and Substantial Release Migration (SRM) conditions identified at 5-7 Allen Street, 9 Allen Street, and 11 Allen Street and 250-256 Somerville Avenue, which are located adjacent to and down-gradient of the former Kiley Barrel property in Somerville, Massachusetts (the “Site”). These conditions are associated with the volatilization of volatile organic compounds (VOCs) from groundwater and potential migration into indoor air. This Status Report No. 6 covers the time period of August 13, 2011 through February 12, 2012.

In March 2009, TRC collected indoor air and groundwater samples from the properties at 5-7 Allen Street, 9 Allen Street, 11 Allen Street, and 250-256 Somerville Avenue, in response to the City receiving a *Notice of Responsibility/Notice of Response Action/Notice of Commencement of Work Pursuant to M.G.L. C.21E* dated January 16, 2009 and modified under the *Amended Notice of Response Action Interim Deadline Extension* dated April 1, 2009 (herein referred to as “the Notices”) for the former Kiley Barrel Site under RTN 3-2849. Relatively low concentrations of Site contaminants of potential concern (COPCs) were detected in several groundwater and indoor air samples. Because Site COPCs were detected in indoor air samples, TRC concluded that potential CEP and SRM conditions exist at these off-property locations. The potential condition of SRM triggered a 72-hour reporting condition. Subsequently, on April 24, 2009, TRC notified the Massachusetts Department of Environmental Protection (MassDEP) of the condition of SRM at the Site. The MassDEP assigned RTN 3-28464 to the SRM condition and verbally approved additional assessment activities including additional indoor air and sub-slab soil gas sampling. The primary RTN for the former Kiley Barrel Site is 3-2849. RTN 3-28464 was linked to the primary RTN on April 26, 2010. In accordance with MassDEP requirements, this report is being submitted under RTN 3-28464.

An Imminent Hazard (IH) Evaluation was completed and submitted to MassDEP on May 4, 2009. Based on the results of groundwater and indoor air sampling and a Method 3 risk characterization, TRC concluded that an IH condition related to the Site does not exist at any of the four residential properties. The purpose of this IRA was to assess the potential CEP and SRM conditions identified during the March/April 2009 IH Evaluation. Although IH conditions were not identified in the March/April 2009 evaluation, additional assessment was conducted to evaluate seasonal fluctuations in indoor air concentrations and establish whether the source of compounds identified in indoor air is from groundwater or from other internal (background) or ambient sources.

The Site owner and Licensed Site Professional (LSP) contact information is as follows:

Site Owner:

Somerville Redevelopment Authority
Somerville City Hall
93 Highland Avenue
Contact: Nancy Busnach, Chairwoman
Somerville, Massachusetts 02143

City of Somerville
93 Highland Avenue
Contact: Mr. Stephen Azar, LEED AP
Somerville, Massachusetts 02143
617-625-6600 x2561

Licensed Site Professional:

Mr. Dennis Tuttle, LSP
LSP License Number 3133
TRC Environmental Corporation
650 Suffolk Street
Lowell, Massachusetts 01854
978-656-3612

2.0 SITE DESCRIPTION

2.1 Site Description

A Site Location Map identifying the general Site vicinity is provided as Figure 1, and a Site Plan, illustrating general features and current layout of the Site is provided as Figure 2. The Site consists of the former Kiley Barrel property and four adjacent residential properties that are the focus of this IRA. Soil and groundwater are the impacted environmental media on the former Kiley Barrel property; groundwater and potentially indoor air are the impacted environmental media on the residential properties. The Universal Transverse Mercator (UTM) coordinates are Easting: 327,629 and Northing: 4,693,926.

2.1.1 *Former Kiley Barrel Property*

The former Kiley Barrel property consists of eight contiguous parcels of land including 0 Prospect Street, 20-22 Prospect Street, 264-266 Somerville Avenue, 9 and 10 Milk Place, and 8, 14 and 16-20 Bennett Street, located in the City of Somerville, Middlesex County, Massachusetts. The property is approximately 31,956 square feet in size and is located at the southeast corner of the intersection of Prospect Street and Somerville Avenue, just east of Union Square in Somerville, Massachusetts. The property adjoins Prospect Street, Milk Place, Bennett Street, and Somerville Avenue. A paved municipal parking lot currently occupies 0 Prospect Street. The remaining parcels are vacant and unpaved, although covered with crushed rock, and primarily consist of sparse to moderately vegetated open space, surrounded by a secure 6-foot high chain link fence. The focus for this IRA is upon four residential properties to the east of the former Kiley Barrel property as described in Section 2.1.2.

Between the early 1920s and 1989, the property was operated as a family business which stored, cleaned, and recycled multiuse barrels. Cleaning operations involved the direct disposal of liquid wastes into the municipal sewer system followed by a steam rinse and painting of the barrels for reuse. Historical property use has resulted in impacts to soil and groundwater from numerous paint, solvent, and oil constituents (including polychlorinated biphenyls (PCBs)) present during the barrel cleaning and refurbishing processes.

2.1.2 *Off-Property Locations*

The focus of this IRA is on four residential properties located adjacent to and down-gradient of the former Kiley Barrel property. The four residential properties consist of 5-7 Allen Street, 9 Allen Street, 11 Allen Street, and 250-256 Somerville Avenue. A brief description of each of the off-property locations, based on observations noted during the March and August/September 2009 indoor air assessments, is as follows:

5-7 Allen Street

The 5-7 Allen Street property includes a three-story wood-framed building with an unfinished basement. The foundation is comprised of brick and stone, and the basement has a concrete

floor. Moderate cracks were observed in both the foundation and the concrete floor. Three fuel oil tanks are present in the basement. The building is heated via fuel oil.

9 Allen Street

The 9 Allen Street property includes a two-story wood-framed single-family home with an unfinished basement and earthen floor. The foundation is comprised of brick and stone. The building is heated with a natural gas furnace through a forced hot air system.

11 Allen Street

The 11 Allen Street property includes a two-story wood-framed single-family home with an unfinished basement. The foundation is comprised of brick and stone, and the basement has a poured concrete floor. Moderate cracks were observed in both the foundation and the concrete floor. The building is heated with a natural gas furnace through a forced hot air system.

250-256 Somerville Avenue

This property includes a three-story wood-framed apartment building with an unfinished basement. The foundation is comprised of brick and stone, and the basement has a poured concrete floor. Moderate cracks were observed in both the foundation and the concrete floor. The building is heated with a natural gas furnace through a forced hot air system.

2.2 Background

Well Installation Activities

On August 18, 2009, four monitoring wells were installed to evaluate the extent of COPCs in groundwater. One monitoring well (TRC-6) was installed on the 10 Milk Place parcel; two monitoring wells (TRC-3 and TRC-4) were installed on the down-gradient portion of 9 Allen Street and 250-256 Somerville Avenue, respectively; and one monitoring well (TRC-8) was installed on the 13 Allen Street property to evaluate potential migration from upgradient properties.

One deeper monitoring well, TRC-9, was installed on the 14 Bennett Street property in February 2010, as described in the Supplemental Phase II Comprehensive Site Assessment, Phase III Remedial Action Plan and Tier Reclassification (TRC, 2010a).

Groundwater Sampling

Groundwater samples were collected in conjunction with this IRA on August 27, 2009 and April 22, 2010. Groundwater sample results are discussed in IRA Status Report No. 3 (TRC, 2010).

Soil Gas and Indoor Air Sampling

As part of this IRA, five rounds of soil gas and indoor air sampling were performed on March 16, 2009, August 26, 2009, January 28, 2010, April 22, 2011, and October 6 and 7, 2011 at each off-property location to evaluate potential CEP conditions.

Summary of Prior IRA Work

Between March and April 2009, TRC conducted an IH Evaluation to assess whether VOCs released to groundwater at the former Kiley Barrel property are impacting the off-property locations via volatilization from groundwater and vapor intrusion and to evaluate whether detected concentrations of Site COPCs represent an IH condition. The IH Evaluation was conducted in response to a *Notice of Responsibility/Notice of Response Action/Notice of Commencement of Work Pursuant to M.G.L. C.21E* dated January 16, 2009 and modified under the *Amended Notice of Response Action Interim Deadline Extension* dated April 1, 2009 (herein referred to as “the Notices”) for the former Kiley Barrel Site under RTN 3-2849. The Notices were issued by MassDEP to the Somerville Redevelopment Authority and the City, the current owners of record.

In March 2009, TRC collected indoor air and groundwater samples from the properties at 5-7 Allen Street, 9 Allen Street, 11 Allen Street, and 250-256 Somerville Avenue. Relatively low concentrations of Site COPCs were detected in several groundwater and indoor air samples. Because Site COPCs were detected in indoor air samples, TRC concluded that potential conditions of CEP and SRM exist at these off-property locations. The condition of SRM triggered a 72-hour reporting condition. Subsequently, on April 24, 2009, TRC notified the MassDEP of the condition of SRM at the Site. Mr. Chris Bresnahan of MassDEP assigned RTN 3-28464 to the SRM condition and verbally approved additional assessment activities including additional indoor air and sub-slab soil gas sampling.

The IH Evaluation was completed and submitted to MassDEP on May 4, 2009. Based on the results of groundwater and indoor air sampling and a Method 3 risk characterization, TRC concluded that an IH condition related to the Site does not exist at any of the four residential properties included in the IH evaluation.

Groundwater, soil gas, and indoor air sampling results were evaluated in the human health risk characterization included in the Supplemental Phase II Comprehensive Site Assessment (CSA) Report submitted to MassDEP on May 25, 2010. The results of the Method 3 risk characterization completed as part of the Supplemental Phase II (TRC, 2010a) and updated in IRA Status Report No. 3 (TRC, 2010b) concluded that a condition of No Significant Risk exists under both current and future use scenarios at the four off-property residential locations.

2.3 Reason Why Immediate Response Action is Required

The purpose of this IRA is to further assess the potential CEP and SRM conditions identified during the March/April 2009 IH Evaluation investigation. Although IH conditions were not identified, additional assessment was and is being conducted to evaluate seasonal fluctuations in

indoor air concentrations and establish whether the source of COPCs identified in indoor air is from groundwater or from other internal (background) or ambient sources.

3.0 STATUS OF IMMEDIATE RESPONSE ACTIONS

During the reporting period of August 12, 2011 through February 12, 2012, a round of soil gas and indoor air samples were collected. Additional site assessment activities were also conducted at the Kiley Barrel Site in support of a Supplemental Phase II Comprehensive Site Assessment currently under preparation. The additional assessment activities are necessary due to the potential to be able to reach a permanent solution for the property rather than the temporary solution as described in the May 2010 Supplemental Phase II & III. The results of the indoor air and soil gas sampling are being incorporated into the Supplemental Phase II.

3.1.1 Results of Air Sampling

Soil gas and indoor air sampling was performed on October 6 and 7, 2011 at each of the four residential properties. To monitor the air quality of the indoor air at the residences, sampling was performed in the basement, i.e. at the indoor point of potential migration into the building from volatilization from underlying groundwater. An outdoor ambient air sample was also collected. Indoor air, soil gas, and ambient air samples were submitted to Alpha Analytical for analysis of VOCs by EPA Method TO-15. A summary of soil gas results is presented in Table 1, and a summary of indoor air, and ambient air results is presented in Table 2. The laboratory analytical results for the soil gas and indoor and ambient air are presented in Appendix A. Copies of correspondence with property owners providing them the results of sample analysis for their properties for this event are included in Appendix B.

Overall, concentrations of VOCs in indoor air were similar in October 2011 to those detected in April 2011. Only two VOCs, 1,4-dichlorobenzene and naphthalene, were detected above IATVs at in the 5 Allen Street basement sample. Carbon tetrachloride was detected at all indoor air samples, including upwind/ambient air samples, and is presumed to be indicative of ambient air conditions in the vicinity of the Site. Because 4-methyl-2-pentanone, methylene chloride and bromodichloromethane were not detected in Site groundwater, their presence in indoor air may be related to ambient or indoor sources such as nearby gasoline stations or the indoor use of VOC-containing cleaning products.

Based on a comparison of 2011 indoor air concentrations to previous indoor air sampling results from 2009 and 2010, a condition of “No Significant Risk” and the potential CEP both continue to exist at the residential properties.

4.0 REMEDIATION WASTE

Remediation waste has not been excavated, collected, stored, treated, or reused at the Site during the execution of this IRA.

5.0 IMMEDIATE RESPONSE ACTION SCHEDULE

At this time, the City is evaluating future assessment and remedial options for the overall Site including the potential CEP condition. To verify maintenance of a condition of No Significant Risk in indoor air at the residential properties, additional air/soil gas monitoring is also being planned. The next round of soil gas and indoor air monitoring is planned for the February/March/April 2012 timeframe.

6.0 SUMMARY AND CONCLUSIONS

On behalf of the City of Somerville, TRC is conducting IRA activities to assess whether VOCs released to groundwater at the former Kiley Barrel Site are impacting down-gradient residential buildings at 5-7 Allen Street, 9 Allen Street, and 11 Allen Street and 250-256 Somerville Avenue via vapor intrusion. These activities are being conducted as a follow-up to an IH Evaluation conducted in May 2009. Based on the recent results of groundwater and indoor air sampling and a Method 3 risk characterization, as presented in the Supplemental Phase II Comprehensive Site Assessment Report and updated in IRA Status Report No. 3, a condition of No Significant Risk related to the Site exists at the four residential properties under current and future foreseeable use conditions.

RTN 3-28464, was combined with the primary RTN for the Kiley Barrel Site, RTN 3-2849. Reporting for this IRA will continue to be submitted under RTN 3-28464.

Additional assessment and remediation activities to assess and resolve Site impacts to soil and groundwater and the potential CEP and SRM conditions are on-going.

7.0 REFERENCES

TRC, 2010a, “*Supplemental Phase II Comprehensive Site Assessment, Phase III Remedial Action Plan and Tier Reclassification, Kiley Barrel Site, Somerville, Massachusetts, Release Tracking Number 3-2849*”, TRC Environmental Corporation, May 2010.

TRC, 2010b, “*Immediate Response Action Status Report #3, Kiley Barrel Site Off-Property Locations, Somerville, Massachusetts, Release Tracking Number 3-2849 (prior RTN 3-28464)*”, TRC Environmental Corporation, October 22, 2010.

FIGURES

TABLES

APPENDIX A
LABORATORY ANALYTICAL REPORTS



ANALYTICAL REPORT

Lab Number:	L1105626
Client:	TRC Environmental Consultants Wannalancit Mills 650 Suffolk Street Lowell, MA 01854
ATTN:	Scott Buchanan
Phone:	(978) 656-3518
Project Name:	KILEY BARREL
Project Number:	113338
Report Date:	05/06/11

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA030), NY (11627), CT (PH-0141), NH (2206), NJ (MA015), RI (LA000299), ME (MA0030), PA (Registration #68-02089), LA NELAC (03090), FL NELAC (E87814), US Army Corps of Engineers.

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com



Project Name: KILEY BARREL
Project Number: 113338

Lab Number: L1105626
Report Date: 05/06/11

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1105626-01	252B	SOMERVILLE, MA	04/22/11 13:01
L1105626-02	9ALLB	SOMERVILLE, MA	04/22/11 13:24
L1105626-03	UPWIND	SOMERVILLE, MA	04/22/11 14:13
L1105626-04	5ALLB	SOMERVILLE, MA	04/22/11 14:20
L1105626-05	11ALLB	SOMERVILLE, MA	04/22/11 15:30
L1105626-06	SG-4	SOMERVILLE, MA	04/22/11 13:33
L1105626-07	SG-2	SOMERVILLE, MA	04/22/11 15:08
L1105626-08	SG-3	SOMERVILLE, MA	04/22/11 16:01
L1105626-09	SG-1	SOMERVILLE, MA	04/22/11 17:12

Project Name: KILEY BARREL
Project Number: 113338

Lab Number: L1105626
Report Date: 05/06/11

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A through F is required for "Presumptive Certainty" status		
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	YES
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	YES
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?"	YES
E a.	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	N/A
E b.	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	YES
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	YES

A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	YES
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	NO
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	YES

For any questions answered "No", please refer to the case narrative section on the following page(s).

Please note that sample matrix information is located in the Sample Results section of this report.



Project Name: KILEY BARREL
Project Number: 113338

Lab Number: L1105626
Report Date: 05/06/11

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

For additional information, please contact Client Services at 800-624-9220.

MCP Related Narratives

MCP Volatile Organics in Air

Canisters were released from the laboratory on April 13, 2011.

The canister certification data is provided as an addendum.

L1105626-03 The RPD of the pre- and post-flow controller calibration check (25% RPD) was outside acceptable limits (< or = 20% RPD).

L1105626-01 through -04, -07, -08 and WG465751-5 Duplicate: results for Acetone should be considered estimated due to co-elution with a non-target peak.

L1105626-06 was re-analyzed on dilution in order to quantitate the sample within the calibration range. The

Project Name: KILEY BARREL
Project Number: 113338

Lab Number: L1105626
Report Date: 05/06/11

Case Narrative (continued)

result should be considered estimated, and is qualified with an E flag, for any compound that exceeded the calibration on the initial analysis. The re-analysis was performed only for the compound that exceeded the calibration range.

L1105626-06 results for Propylene should be considered estimated due to co-elution with a non-target peak.

In reference to question H:

The WG465751-3 LCS recoveries for 1,2,4-Trichlorobenzene (172%) and Hexachlorobutadiene (165%) are outside the 70%-130% acceptance limit. Samples associated with this LCS were non-detect for these analytes, therefore the results were released without qualification per the method.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

Kathleen M. O'Brien Kathleen O'Brien

Title: Technical Director/Representative

Date: 05/06/11

AIR



Project Name: KILEY BARREL**Lab Number:** L1105626**Project Number:** 113338**Report Date:** 05/06/11**SAMPLE RESULTS**

Lab ID:	L1105626-01	Date Collected:	04/22/11 13:01
Client ID:	252B	Date Received:	04/22/11
Sample Location:	SOMERVILLE, MA	Field Prep:	Not Specified
Matrix:	Air		
Anaytical Method:	101,TO-15		
Analytical Date:	05/02/11 18:09		
Analyst:	BS		

Parameter	Results	ppbV		ug/m3		Qualifier	Dilution Factor
		RL	MDL	Results	RL		
MCP Volatile Organics in Air - Mansfield Lab							
Propylene	ND	0.500	0.250	ND	0.860	0.430	1
Dichlorodifluoromethane	0.440	0.200	0.100	2.17	0.988	0.494	1
Chloromethane	0.516	0.200	0.100	1.06	0.413	0.207	1
Freon-114	ND	0.200	0.100	ND	1.40	0.700	1
1,3-Butadiene	ND	0.200	0.100	ND	0.442	0.221	1
Bromomethane	ND	0.200	0.100	ND	0.776	0.388	1
Chloroethane	ND	0.200	0.100	ND	0.527	0.264	1
Ethyl Alcohol	53.0	2.50	1.25	99.8	4.71	2.36	1
Acetone	5.07	1.00	0.500	12.0	2.37	1.19	1
Trichlorofluoromethane	0.178	0.200	0.100	0.999	1.12	0.560	J 1
iso-Propyl Alcohol	0.569	0.500	0.250	1.40	1.23	0.615	1
1,1-Dichloroethene	ND	0.200	0.100	ND	0.792	0.396	1
Methylene chloride	ND	1.40	0.700	ND	4.86	2.43	1
Carbon disulfide	ND	0.200	0.100	ND	0.622	0.311	1
Freon-113	ND	0.200	0.100	ND	1.53	0.765	1
trans-1,2-Dichloroethene	ND	0.200	0.100	ND	0.792	0.396	1
Methyl tert butyl ether	ND	0.200	0.100	ND	0.720	0.360	1
Vinyl acetate	ND	0.200	0.100	ND	0.704	0.352	1
2-Butanone	0.215	0.200	0.100	0.634	0.589	0.295	1
cis-1,2-Dichloroethene	ND	0.200	0.100	ND	0.792	0.396	1
Ethyl Acetate	ND	0.500	0.250	ND	1.80	0.900	1
Chloroform	ND	0.200	0.100	ND	0.976	0.488	1
Tetrahydrofuran	ND	0.200	0.100	ND	0.589	0.295	1
n-Hexane	0.173	0.200	0.100	0.609	0.704	0.352	J 1
1,1,1-Trichloroethane	ND	0.200	0.100	ND	1.09	0.545	1



Project Name: KILEY BARREL**Lab Number:** L1105626**Project Number:** 113338**Report Date:** 05/06/11**SAMPLE RESULTS**

Lab ID: L1105626-01 Date Collected: 04/22/11 13:01
 Client ID: 252B Date Received: 04/22/11
 Sample Location: SOMERVILLE, MA Field Prep: Not Specified

Parameter	Results	ppbV		ug/m3		Qualifier	Dilution Factor
		RL	MDL	RL	MDL		
MCP Volatile Organics in Air - Mansfield Lab							
Benzene	0.223	0.200	0.100	0.712	0.638	0.319	1
Cyclohexane	ND	0.200	0.100	ND	0.688	0.344	1
Heptane	ND	0.200	0.100	ND	0.819	0.410	1
4-Methyl-2-pentanone	ND	0.200	0.100	ND	0.819	0.410	1
Toluene	0.494	0.200	0.100	1.86	0.753	0.377	1
2-Hexanone	ND	0.200	0.100	ND	0.819	0.410	1
Tetrachloroethene	ND	0.200	0.100	ND	1.36	0.680	1
Ethylbenzene	ND	0.200	0.100	ND	0.868	0.434	1
p/m-Xylene	ND	0.400	0.200	ND	1.74	0.870	1
Bromoform	ND	0.200	0.100	ND	2.06	1.03	1
Styrene	ND	0.200	0.100	ND	0.851	0.426	1
o-Xylene	ND	0.200	0.100	ND	0.868	0.434	1
4-Ethyltoluene	ND	0.200	0.100	ND	0.982	0.491	1
1,3,5-Trimethylbenzene	ND	0.200	0.100	ND	0.982	0.491	1
1,2,4-Trimethylbenzene	ND	0.200	0.100	ND	0.982	0.491	1
Benzyl chloride	ND	0.200	0.100	ND	1.03	0.515	1
1,2,4-Trichlorobenzene	ND	0.200	0.100	ND	1.48	0.740	1
Hexachlorobutadiene	ND	0.200	0.100	ND	2.13	1.07	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Bromofluorobenzene	111		70-130

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	109		60-140
Bromochloromethane	112		60-140
chlorobenzene-d5	106		60-140



Project Name: KILEY BARREL**Lab Number:** L1105626**Project Number:** 113338**Report Date:** 05/06/11**SAMPLE RESULTS**

Lab ID:	L1105626-01	Date Collected:	04/22/11 13:01
Client ID:	252B	Date Received:	04/22/11
Sample Location:	SOMERVILLE, MA	Field Prep:	Not Specified
Matrix:	Air		
Anaytical Method:	101,TO15-SIM		
Analytical Date:	05/02/11 18:09		
Analyst:	BS		

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
MCP Volatile Organics in Air by SIM - Mansfield Lab								
1,1,2,2-Tetrachloroethane	ND	0.020	0.010	ND	0.137	0.069		1
1,1,2-Trichloroethane	ND	0.020	0.010	ND	0.109	0.055		1
1,1-Dichloroethane	ND	0.020	0.010	ND	0.081	0.040		1
1,2-Dibromoethane	ND	0.020	0.010	ND	0.154	0.077		1
1,2-Dichlorobenzene	ND	0.020	0.010	ND	0.120	0.060		1
1,2-Dichloroethane	0.015	0.020	0.010	0.061	0.081	0.040	J	1
1,2-Dichloropropane	ND	0.020	0.010	ND	0.092	0.046		1
1,3-Dichlorobenzene	ND	0.020	0.010	ND	0.120	0.060		1
1,4-Dichlorobenzene	0.012	0.020	0.010	0.072	0.120	0.060	J	1
Bromodichloromethane	ND	0.020	0.010	ND	0.134	0.067		1
Carbon tetrachloride	0.055	0.020	0.010	0.346	0.126	0.063		1
Chlorobenzene	ND	0.020	0.010	ND	0.092	0.046		1
cis-1,3-Dichloropropene	ND	0.020	0.010	ND	0.091	0.045		1
Dibromochloromethane	ND	0.020	0.010	ND	0.170	0.085		1
trans-1,3-Dichloropropene	ND	0.020	0.010	ND	0.091	0.045		1
Trichloroethene	ND	0.020	0.010	ND	0.107	0.054		1
Vinyl chloride	ND	0.020	0.010	ND	0.051	0.026		1

Project Name: KILEY BARREL**Lab Number:** L1105626**Project Number:** 113338**Report Date:** 05/06/11**SAMPLE RESULTS**

Lab ID:	L1105626-01	Date Collected:	04/22/11 13:01
Client ID:	252B	Date Received:	04/22/11
Sample Location:	SOMERVILLE, MA	Field Prep:	Not Specified

Parameter	ppbV			ug/m3			Dilution Factor
	Results	RL	MDL	Results	RL	MDL	
MCP Volatile Organics in Air by SIM - Mansfield Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria
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Bromofluorobenzene	111	70-130
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Internal Standard	% Recovery	Qualifier	Acceptance Criteria
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1,4-difluorobenzene	97	60-140
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bromochloromethane	100	60-140
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chlorobenzene-d5	97	60-140
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Project Name: KILEY BARREL**Lab Number:** L1105626**Project Number:** 113338**Report Date:** 05/06/11**SAMPLE RESULTS**

Lab ID:	L1105626-02	Date Collected:	04/22/11 13:24
Client ID:	9ALLB	Date Received:	04/22/11
Sample Location:	SOMERVILLE, MA	Field Prep:	Not Specified
Matrix:	Air		
Anaytical Method:	101,TO-15		
Analytical Date:	05/02/11 18:47		
Analyst:	BS		

Parameter	Results	ppbV		ug/m3		Qualifier	Dilution Factor
		RL	MDL	Results	RL		
MCP Volatile Organics in Air - Mansfield Lab							
Propylene	ND	0.500	0.250	ND	0.860	0.430	1
Dichlorodifluoromethane	0.451	0.200	0.100	2.23	0.988	0.494	1
Chloromethane	0.345	0.200	0.100	0.712	0.413	0.207	1
Freon-114	ND	0.200	0.100	ND	1.40	0.700	1
1,3-Butadiene	ND	0.200	0.100	ND	0.442	0.221	1
Bromomethane	ND	0.200	0.100	ND	0.776	0.388	1
Chloroethane	ND	0.200	0.100	ND	0.527	0.264	1
Ethyl Alcohol	2.90	2.50	1.25	5.46	4.71	2.36	1
Acetone	1.19	1.00	0.500	2.81	2.37	1.19	1
Trichlorofluoromethane	0.204	0.200	0.100	1.14	1.12	0.560	1
iso-Propyl Alcohol	ND	0.500	0.250	ND	1.23	0.615	1
1,1-Dichloroethene	ND	0.200	0.100	ND	0.792	0.396	1
Methylene chloride	2.09	1.40	0.700	7.26	4.86	2.43	1
Carbon disulfide	ND	0.200	0.100	ND	0.622	0.311	1
Freon-113	ND	0.200	0.100	ND	1.53	0.765	1
trans-1,2-Dichloroethene	ND	0.200	0.100	ND	0.792	0.396	1
Methyl tert butyl ether	ND	0.200	0.100	ND	0.720	0.360	1
Vinyl acetate	ND	0.200	0.100	ND	0.704	0.352	1
2-Butanone	0.157	0.200	0.100	0.463	0.589	0.295	J 1
cis-1,2-Dichloroethene	ND	0.200	0.100	ND	0.792	0.396	1
Ethyl Acetate	ND	0.500	0.250	ND	1.80	0.900	1
Chloroform	ND	0.200	0.100	ND	0.976	0.488	1
Tetrahydrofuran	ND	0.200	0.100	ND	0.589	0.295	1
n-Hexane	0.130	0.200	0.100	0.458	0.704	0.352	J 1
1,1,1-Trichloroethane	ND	0.200	0.100	ND	1.09	0.545	1



Project Name: KILEY BARREL**Lab Number:** L1105626**Project Number:** 113338**Report Date:** 05/06/11**SAMPLE RESULTS**

Lab ID: L1105626-02 Date Collected: 04/22/11 13:24
 Client ID: 9ALLB Date Received: 04/22/11
 Sample Location: SOMERVILLE, MA Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
MCP Volatile Organics in Air - Mansfield Lab								
Benzene	0.155	0.200	0.100	0.495	0.638	0.319	J	1
Cyclohexane	ND	0.200	0.100	ND	0.688	0.344		1
Heptane	ND	0.200	0.100	ND	0.819	0.410		1
4-Methyl-2-pentanone	ND	0.200	0.100	ND	0.819	0.410		1
Toluene	0.303	0.200	0.100	1.14	0.753	0.377		1
2-Hexanone	ND	0.200	0.100	ND	0.819	0.410		1
Tetrachloroethene	ND	0.200	0.100	ND	1.36	0.680		1
Ethylbenzene	ND	0.200	0.100	ND	0.868	0.434		1
p/m-Xylene	ND	0.400	0.200	ND	1.74	0.870		1
Bromoform	ND	0.200	0.100	ND	2.06	1.03		1
Styrene	ND	0.200	0.100	ND	0.851	0.426		1
o-Xylene	ND	0.200	0.100	ND	0.868	0.434		1
4-Ethyltoluene	ND	0.200	0.100	ND	0.982	0.491		1
1,3,5-Trimethylbenzene	ND	0.200	0.100	ND	0.982	0.491		1
1,2,4-Trimethylbenzene	ND	0.200	0.100	ND	0.982	0.491		1
Benzyl chloride	ND	0.200	0.100	ND	1.03	0.515		1
1,2,4-Trichlorobenzene	ND	0.200	0.100	ND	1.48	0.740		1
Hexachlorobutadiene	ND	0.200	0.100	ND	2.13	1.07		1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Bromofluorobenzene	112		70-130

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	108		60-140
Bromochloromethane	112		60-140
chlorobenzene-d5	102		60-140



Project Name: KILEY BARREL**Lab Number:** L1105626**Project Number:** 113338**Report Date:** 05/06/11**SAMPLE RESULTS**

Lab ID:	L1105626-02	Date Collected:	04/22/11 13:24
Client ID:	9ALLB	Date Received:	04/22/11
Sample Location:	SOMERVILLE, MA	Field Prep:	Not Specified
Matrix:	Air		
Anaytical Method:	101,TO15-SIM		
Analytical Date:	05/02/11 18:47		
Analyst:	BS		

Parameter	Results	ppbV		ug/m3		Qualifier	Dilution Factor
		RL	MDL	Results	RL		
MCP Volatile Organics in Air by SIM - Mansfield Lab							
1,1,2,2-Tetrachloroethane	ND	0.020	0.010	ND	0.137	0.069	1
1,1,2-Trichloroethane	ND	0.020	0.010	ND	0.109	0.055	1
1,1-Dichloroethane	0.023	0.020	0.010	0.093	0.081	0.040	1
1,2-Dibromoethane	ND	0.020	0.010	ND	0.154	0.077	1
1,2-Dichlorobenzene	ND	0.020	0.010	ND	0.120	0.060	1
1,2-Dichloroethane	0.011	0.020	0.010	0.045	0.081	0.040	J 1
1,2-Dichloropropane	ND	0.020	0.010	ND	0.092	0.046	1
1,3-Dichlorobenzene	ND	0.020	0.010	ND	0.120	0.060	1
1,4-Dichlorobenzene	ND	0.020	0.010	ND	0.120	0.060	1
Bromodichloromethane	ND	0.020	0.010	ND	0.134	0.067	1
Carbon tetrachloride	0.057	0.020	0.010	0.358	0.126	0.063	1
Chlorobenzene	ND	0.020	0.010	ND	0.092	0.046	1
cis-1,3-Dichloropropene	ND	0.020	0.010	ND	0.091	0.045	1
Dibromochloromethane	ND	0.020	0.010	ND	0.170	0.085	1
trans-1,3-Dichloropropene	ND	0.020	0.010	ND	0.091	0.045	1
Trichloroethene	0.012	0.020	0.010	0.064	0.107	0.054	J 1
Vinyl chloride	ND	0.020	0.010	ND	0.051	0.026	1



Project Name: KILEY BARREL**Lab Number:** L1105626**Project Number:** 113338**Report Date:** 05/06/11**SAMPLE RESULTS**

Lab ID:	L1105626-02	Date Collected:	04/22/11 13:24
Client ID:	9ALLB	Date Received:	04/22/11
Sample Location:	SOMERVILLE, MA	Field Prep:	Not Specified

Parameter	ppbV			ug/m3			Dilution Factor
	Results	RL	MDL	Results	RL	MDL	
MCP Volatile Organics in Air by SIM - Mansfield Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria
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Bromofluorobenzene	112	70-130
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Internal Standard	% Recovery	Qualifier	Acceptance Criteria
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1,4-difluorobenzene	95	60-140
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bromochloromethane	99	60-140
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chlorobenzene-d5	95	60-140
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Project Name: KILEY BARREL**Lab Number:** L1105626**Project Number:** 113338**Report Date:** 05/06/11**SAMPLE RESULTS**

Lab ID:	L1105626-03	Date Collected:	04/22/11 14:13
Client ID:	UPWIND	Date Received:	04/22/11
Sample Location:	SOMERVILLE, MA	Field Prep:	Not Specified
Matrix:	Air		
Anaytical Method:	101,TO-15		
Analytical Date:	05/02/11 19:26		
Analyst:	BS		

Parameter	Results	ppbV		ug/m3		Qualifier	Dilution Factor
		RL	MDL	Results	RL		
MCP Volatile Organics in Air - Mansfield Lab							
Propylene	ND	0.500	0.250	ND	0.860	0.430	1
Dichlorodifluoromethane	0.477	0.200	0.100	2.36	0.988	0.494	1
Chloromethane	0.565	0.200	0.100	1.16	0.413	0.207	1
Freon-114	ND	0.200	0.100	ND	1.40	0.700	1
1,3-Butadiene	ND	0.200	0.100	ND	0.442	0.221	1
Bromomethane	ND	0.200	0.100	ND	0.776	0.388	1
Chloroethane	ND	0.200	0.100	ND	0.527	0.264	1
Ethyl Alcohol	2.10	2.50	1.25	3.96	4.71	2.36	J 1
Acetone	1.55	1.00	0.500	3.69	2.37	1.19	1
Trichlorofluoromethane	0.265	0.200	0.100	1.49	1.12	0.560	1
iso-Propyl Alcohol	ND	0.500	0.250	ND	1.23	0.615	1
1,1-Dichloroethene	ND	0.200	0.100	ND	0.792	0.396	1
Methylene chloride	ND	1.40	0.700	ND	4.86	2.43	1
Carbon disulfide	ND	0.200	0.100	ND	0.622	0.311	1
Freon-113	ND	0.200	0.100	ND	1.53	0.765	1
trans-1,2-Dichloroethene	ND	0.200	0.100	ND	0.792	0.396	1
Methyl tert butyl ether	0.813	0.200	0.100	2.93	0.720	0.360	1
Vinyl acetate	ND	0.200	0.100	ND	0.704	0.352	1
2-Butanone	0.229	0.200	0.100	0.675	0.589	0.295	1
cis-1,2-Dichloroethene	ND	0.200	0.100	ND	0.792	0.396	1
Ethyl Acetate	ND	0.500	0.250	ND	1.80	0.900	1
Chloroform	ND	0.200	0.100	ND	0.976	0.488	1
Tetrahydrofuran	ND	0.200	0.100	ND	0.589	0.295	1
n-Hexane	0.344	0.200	0.100	1.21	0.704	0.352	1
1,1,1-Trichloroethane	ND	0.200	0.100	ND	1.09	0.545	1



Project Name: KILEY BARREL**Lab Number:** L1105626**Project Number:** 113338**Report Date:** 05/06/11**SAMPLE RESULTS**

Lab ID:	L1105626-03	Date Collected:	04/22/11 14:13
Client ID:	UPWIND	Date Received:	04/22/11
Sample Location:	SOMERVILLE, MA	Field Prep:	Not Specified

Parameter	Results	ppbV		ug/m3		Qualifier	Dilution Factor
		RL	MDL	Results	RL		
MCP Volatile Organics in Air - Mansfield Lab							
Benzene	0.344	0.200	0.100	1.10	0.638	0.319	1
Cyclohexane	0.221	0.200	0.100	0.760	0.688	0.344	1
Heptane	0.200	0.200	0.100	0.819	0.819	0.410	1
4-Methyl-2-pentanone	ND	0.200	0.100	ND	0.819	0.410	1
Toluene	1.48	0.200	0.100	5.56	0.753	0.377	1
2-Hexanone	ND	0.200	0.100	ND	0.819	0.410	1
Tetrachloroethene	ND	0.200	0.100	ND	1.36	0.680	1
Ethylbenzene	0.164	0.200	0.100	0.712	0.868	0.434	J 1
p/m-Xylene	0.499	0.400	0.200	2.16	1.74	0.870	1
Bromoform	ND	0.200	0.100	ND	2.06	1.03	1
Styrene	ND	0.200	0.100	ND	0.851	0.426	1
o-Xylene	0.165	0.200	0.100	0.716	0.868	0.434	J 1
4-Ethyltoluene	ND	0.200	0.100	ND	0.982	0.491	1
1,3,5-Trimethylbenzene	ND	0.200	0.100	ND	0.982	0.491	1
1,2,4-Trimethylbenzene	ND	0.200	0.100	ND	0.982	0.491	1
Benzyl chloride	ND	0.200	0.100	ND	1.03	0.515	1
1,2,4-Trichlorobenzene	ND	0.200	0.100	ND	1.48	0.740	1
Hexachlorobutadiene	ND	0.200	0.100	ND	2.13	1.07	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Bromofluorobenzene	106		70-130

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	95		60-140
Bromochloromethane	108		60-140
chlorobenzene-d5	93		60-140



Project Name: KILEY BARREL**Lab Number:** L1105626**Project Number:** 113338**Report Date:** 05/06/11**SAMPLE RESULTS**

Lab ID:	L1105626-03	Date Collected:	04/22/11 14:13
Client ID:	UPWIND	Date Received:	04/22/11
Sample Location:	SOMERVILLE, MA	Field Prep:	Not Specified
Matrix:	Air		
Anaytical Method:	101,TO15-SIM		
Analytical Date:	05/02/11 19:26		
Analyst:	BS		

Parameter	Results	ppbV		ug/m3		Qualifier	Dilution Factor
		RL	MDL	Results	RL		
MCP Volatile Organics in Air by SIM - Mansfield Lab							
1,1,2,2-Tetrachloroethane	ND	0.020	0.010	ND	0.137	0.069	1
1,1,2-Trichloroethane	ND	0.020	0.010	ND	0.109	0.055	1
1,1-Dichloroethane	ND	0.020	0.010	ND	0.081	0.040	1
1,2-Dibromoethane	ND	0.020	0.010	ND	0.154	0.077	1
1,2-Dichlorobenzene	ND	0.020	0.010	ND	0.120	0.060	1
1,2-Dichloroethane	0.014	0.020	0.010	0.057	0.081	0.040	J 1
1,2-Dichloropropane	ND	0.020	0.010	ND	0.092	0.046	1
1,3-Dichlorobenzene	ND	0.020	0.010	ND	0.120	0.060	1
1,4-Dichlorobenzene	ND	0.020	0.010	ND	0.120	0.060	1
Bromodichloromethane	ND	0.020	0.010	ND	0.134	0.067	1
Carbon tetrachloride	0.062	0.020	0.010	0.390	0.126	0.063	1
Chlorobenzene	ND	0.020	0.010	ND	0.092	0.046	1
cis-1,3-Dichloropropene	ND	0.020	0.010	ND	0.091	0.045	1
Dibromochloromethane	ND	0.020	0.010	ND	0.170	0.085	1
trans-1,3-Dichloropropene	ND	0.020	0.010	ND	0.091	0.045	1
Trichloroethene	ND	0.020	0.010	ND	0.107	0.054	1
Vinyl chloride	ND	0.020	0.010	ND	0.051	0.026	1



Project Name: KILEY BARREL**Lab Number:** L1105626**Project Number:** 113338**Report Date:** 05/06/11**SAMPLE RESULTS**

Lab ID:	L1105626-03	Date Collected:	04/22/11 14:13
Client ID:	UPWIND	Date Received:	04/22/11
Sample Location:	SOMERVILLE, MA	Field Prep:	Not Specified

Parameter	ppbV			ug/m3			Dilution Factor
	Results	RL	MDL	Results	RL	MDL	
MCP Volatile Organics in Air by SIM - Mansfield Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria
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Bromofluorobenzene	107	70-130
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Internal Standard	% Recovery	Qualifier	Acceptance Criteria
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1,4-difluorobenzene	85	60-140
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bromochloromethane	98	60-140
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chlorobenzene-d5	86	60-140
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Project Name: KILEY BARREL**Lab Number:** L1105626**Project Number:** 113338**Report Date:** 05/06/11**SAMPLE RESULTS**

Lab ID:	L1105626-04	Date Collected:	04/22/11 14:20
Client ID:	5ALLB	Date Received:	04/22/11
Sample Location:	SOMERVILLE, MA	Field Prep:	Not Specified
Matrix:	Air		
Anaytical Method:	101,TO-15		
Analytical Date:	05/02/11 20:03		
Analyst:	BS		

Parameter	Results	ppbV		ug/m3		Qualifier	Dilution Factor
		RL	MDL	Results	RL		
MCP Volatile Organics in Air - Mansfield Lab							
Propylene	ND	0.500	0.250	ND	0.860	0.430	1
Dichlorodifluoromethane	0.459	0.200	0.100	2.27	0.988	0.494	1
Chloromethane	0.487	0.200	0.100	1.00	0.413	0.207	1
Freon-114	ND	0.200	0.100	ND	1.40	0.700	1
1,3-Butadiene	ND	0.200	0.100	ND	0.442	0.221	1
Bromomethane	ND	0.200	0.100	ND	0.776	0.388	1
Chloroethane	ND	0.200	0.100	ND	0.527	0.264	1
Ethyl Alcohol	5.82	2.50	1.25	10.9	4.71	2.36	1
Acetone	1.87	1.00	0.500	4.45	2.37	1.19	1
Trichlorofluoromethane	0.202	0.200	0.100	1.13	1.12	0.560	1
iso-Propyl Alcohol	0.382	0.500	0.250	0.938	1.23	0.615	J 1
1,1-Dichloroethene	ND	0.200	0.100	ND	0.792	0.396	1
Methylene chloride	ND	1.40	0.700	ND	4.86	2.43	1
Carbon disulfide	ND	0.200	0.100	ND	0.622	0.311	1
Freon-113	ND	0.200	0.100	ND	1.53	0.765	1
trans-1,2-Dichloroethene	ND	0.200	0.100	ND	0.792	0.396	1
Methyl tert butyl ether	ND	0.200	0.100	ND	0.720	0.360	1
Vinyl acetate	ND	0.200	0.100	ND	0.704	0.352	1
2-Butanone	0.233	0.200	0.100	0.687	0.589	0.295	1
cis-1,2-Dichloroethene	ND	0.200	0.100	ND	0.792	0.396	1
Ethyl Acetate	ND	0.500	0.250	ND	1.80	0.900	1
Chloroform	ND	0.200	0.100	ND	0.976	0.488	1
Tetrahydrofuran	ND	0.200	0.100	ND	0.589	0.295	1
n-Hexane	0.118	0.200	0.100	0.416	0.704	0.352	J 1
1,1,1-Trichloroethane	ND	0.200	0.100	ND	1.09	0.545	1



Project Name: KILEY BARREL**Lab Number:** L1105626**Project Number:** 113338**Report Date:** 05/06/11**SAMPLE RESULTS**

Lab ID:	L1105626-04	Date Collected:	04/22/11 14:20
Client ID:	5ALLB	Date Received:	04/22/11
Sample Location:	SOMERVILLE, MA	Field Prep:	Not Specified

Parameter	Results	ppbV		ug/m3		Qualifier	Dilution Factor
		RL	MDL	Results	RL		
MCP Volatile Organics in Air - Mansfield Lab							
Benzene	0.168	0.200	0.100	0.536	0.638	0.319	J 1
Cyclohexane	ND	0.200	0.100	ND	0.688	0.344	1
Heptane	ND	0.200	0.100	ND	0.819	0.410	1
4-Methyl-2-pentanone	ND	0.200	0.100	ND	0.819	0.410	1
Toluene	0.477	0.200	0.100	1.80	0.753	0.377	1
2-Hexanone	ND	0.200	0.100	ND	0.819	0.410	1
Tetrachloroethene	ND	0.200	0.100	ND	1.36	0.680	1
Ethylbenzene	ND	0.200	0.100	ND	0.868	0.434	1
p/m-Xylene	ND	0.400	0.200	ND	1.74	0.870	1
Bromoform	ND	0.200	0.100	ND	2.06	1.03	1
Styrene	ND	0.200	0.100	ND	0.851	0.426	1
o-Xylene	ND	0.200	0.100	ND	0.868	0.434	1
4-Ethyltoluene	ND	0.200	0.100	ND	0.982	0.491	1
1,3,5-Trimethylbenzene	ND	0.200	0.100	ND	0.982	0.491	1
1,2,4-Trimethylbenzene	ND	0.200	0.100	ND	0.982	0.491	1
Benzyl chloride	ND	0.200	0.100	ND	1.03	0.515	1
1,2,4-Trichlorobenzene	ND	0.200	0.100	ND	1.48	0.740	1
Hexachlorobutadiene	ND	0.200	0.100	ND	2.13	1.07	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Bromofluorobenzene	109		70-130

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	100		60-140
Bromochloromethane	109		60-140
chlorobenzene-d5	100		60-140



Project Name: KILEY BARREL**Lab Number:** L1105626**Project Number:** 113338**Report Date:** 05/06/11**SAMPLE RESULTS**

Lab ID:	L1105626-04	Date Collected:	04/22/11 14:20
Client ID:	5ALLB	Date Received:	04/22/11
Sample Location:	SOMERVILLE, MA	Field Prep:	Not Specified
Matrix:	Air		
Anaytical Method:	101,TO15-SIM		
Analytical Date:	05/02/11 20:03		
Analyst:	BS		

Parameter	Results	ppbV		ug/m3		Qualifier	Dilution Factor
		RL	MDL	Results	RL		
MCP Volatile Organics in Air by SIM - Mansfield Lab							
1,1,2,2-Tetrachloroethane	ND	0.020	0.010	ND	0.137	0.069	1
1,1,2-Trichloroethane	ND	0.020	0.010	ND	0.109	0.055	1
1,1-Dichloroethane	ND	0.020	0.010	ND	0.081	0.040	1
1,2-Dibromoethane	ND	0.020	0.010	ND	0.154	0.077	1
1,2-Dichlorobenzene	ND	0.020	0.010	ND	0.120	0.060	1
1,2-Dichloroethane	0.012	0.020	0.010	0.049	0.081	0.040	J 1
1,2-Dichloropropane	ND	0.020	0.010	ND	0.092	0.046	1
1,3-Dichlorobenzene	ND	0.020	0.010	ND	0.120	0.060	1
1,4-Dichlorobenzene	0.151	0.020	0.010	0.907	0.120	0.060	1
Bromodichloromethane	ND	0.020	0.010	ND	0.134	0.067	1
Carbon tetrachloride	0.059	0.020	0.010	0.371	0.126	0.063	1
Chlorobenzene	ND	0.020	0.010	ND	0.092	0.046	1
cis-1,3-Dichloropropene	ND	0.020	0.010	ND	0.091	0.045	1
Dibromochloromethane	ND	0.020	0.010	ND	0.170	0.085	1
trans-1,3-Dichloropropene	ND	0.020	0.010	ND	0.091	0.045	1
Trichloroethene	ND	0.020	0.010	ND	0.107	0.054	1
Vinyl chloride	ND	0.020	0.010	ND	0.051	0.026	1



Project Name: KILEY BARREL**Lab Number:** L1105626**Project Number:** 113338**Report Date:** 05/06/11**SAMPLE RESULTS**

Lab ID:	L1105626-04	Date Collected:	04/22/11 14:20
Client ID:	5ALLB	Date Received:	04/22/11
Sample Location:	SOMERVILLE, MA	Field Prep:	Not Specified

Parameter	ppbV			ug/m3			Dilution Factor
	Results	RL	MDL	Results	RL	MDL	
MCP Volatile Organics in Air by SIM - Mansfield Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria
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Bromofluorobenzene	111	70-130
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Internal Standard	% Recovery	Qualifier	Acceptance Criteria
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1,4-difluorobenzene	89	60-140
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bromochloromethane	101	60-140
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chlorobenzene-d5	91	60-140
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Project Name: KILEY BARREL**Lab Number:** L1105626**Project Number:** 113338**Report Date:** 05/06/11**SAMPLE RESULTS**

Lab ID:	L1105626-05	Date Collected:	04/22/11 15:30
Client ID:	11ALLB	Date Received:	04/22/11
Sample Location:	SOMERVILLE, MA	Field Prep:	Not Specified
Matrix:	Air		
Anaytical Method:	101,TO-15		
Analytical Date:	05/02/11 20:40		
Analyst:	BS		

Parameter	Results	ppbV		ug/m3		Qualifier	Dilution Factor
		RL	MDL	Results	RL		
MCP Volatile Organics in Air - Mansfield Lab							
Propylene	ND	0.500	0.250	ND	0.860	0.430	1
Dichlorodifluoromethane	0.442	0.200	0.100	2.18	0.988	0.494	1
Chloromethane	0.473	0.200	0.100	0.976	0.413	0.207	1
Freon-114	ND	0.200	0.100	ND	1.40	0.700	1
1,3-Butadiene	ND	0.200	0.100	ND	0.442	0.221	1
Bromomethane	ND	0.200	0.100	ND	0.776	0.388	1
Chloroethane	ND	0.200	0.100	ND	0.527	0.264	1
Ethyl Alcohol	38.7	2.50	1.25	72.8	4.71	2.36	1
Acetone	2.59	1.00	0.500	6.14	2.37	1.19	1
Trichlorofluoromethane	0.215	0.200	0.100	1.21	1.12	0.560	1
iso-Propyl Alcohol	0.307	0.500	0.250	0.754	1.23	0.615	J 1
1,1-Dichloroethene	ND	0.200	0.100	ND	0.792	0.396	1
Methylene chloride	ND	1.40	0.700	ND	4.86	2.43	1
Carbon disulfide	ND	0.200	0.100	ND	0.622	0.311	1
Freon-113	0.106	0.200	0.100	0.812	1.53	0.765	J 1
trans-1,2-Dichloroethene	ND	0.200	0.100	ND	0.792	0.396	1
Methyl tert butyl ether	ND	0.200	0.100	ND	0.720	0.360	1
Vinyl acetate	ND	0.200	0.100	ND	0.704	0.352	1
2-Butanone	0.238	0.200	0.100	0.701	0.589	0.295	1
cis-1,2-Dichloroethene	ND	0.200	0.100	ND	0.792	0.396	1
Ethyl Acetate	ND	0.500	0.250	ND	1.80	0.900	1
Chloroform	ND	0.200	0.100	ND	0.976	0.488	1
Tetrahydrofuran	ND	0.200	0.100	ND	0.589	0.295	1
n-Hexane	ND	0.200	0.100	ND	0.704	0.352	1
1,1,1-Trichloroethane	ND	0.200	0.100	ND	1.09	0.545	1



Project Name: KILEY BARREL**Lab Number:** L1105626**Project Number:** 113338**Report Date:** 05/06/11**SAMPLE RESULTS**

Lab ID:	L1105626-05	Date Collected:	04/22/11 15:30
Client ID:	11ALLB	Date Received:	04/22/11
Sample Location:	SOMERVILLE, MA	Field Prep:	Not Specified

Parameter	Results	ppbV		ug/m3		Qualifier	Dilution Factor
		RL	MDL	RL	MDL		
MCP Volatile Organics in Air - Mansfield Lab							
Benzene	0.135	0.200	0.100	0.431	0.638	0.319	J 1
Cyclohexane	ND	0.200	0.100	ND	0.688	0.344	1
Heptane	ND	0.200	0.100	ND	0.819	0.410	1
4-Methyl-2-pentanone	ND	0.200	0.100	ND	0.819	0.410	1
Toluene	0.402	0.200	0.100	1.51	0.753	0.377	1
2-Hexanone	ND	0.200	0.100	ND	0.819	0.410	1
Tetrachloroethene	ND	0.200	0.100	ND	1.36	0.680	1
Ethylbenzene	ND	0.200	0.100	ND	0.868	0.434	1
p/m-Xylene	ND	0.400	0.200	ND	1.74	0.870	1
Bromoform	ND	0.200	0.100	ND	2.06	1.03	1
Styrene	ND	0.200	0.100	ND	0.851	0.426	1
o-Xylene	ND	0.200	0.100	ND	0.868	0.434	1
4-Ethyltoluene	ND	0.200	0.100	ND	0.982	0.491	1
1,3,5-Trimethylbenzene	ND	0.200	0.100	ND	0.982	0.491	1
1,2,4-Trimethylbenzene	ND	0.200	0.100	ND	0.982	0.491	1
Benzyl chloride	ND	0.200	0.100	ND	1.03	0.515	1
1,2,4-Trichlorobenzene	ND	0.200	0.100	ND	1.48	0.740	1
Hexachlorobutadiene	ND	0.200	0.100	ND	2.13	1.07	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Bromofluorobenzene	106		70-130

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	104		60-140
Bromochloromethane	111		60-140
chlorobenzene-d5	105		60-140



Project Name: KILEY BARREL**Lab Number:** L1105626**Project Number:** 113338**Report Date:** 05/06/11**SAMPLE RESULTS**

Lab ID:	L1105626-05	Date Collected:	04/22/11 15:30
Client ID:	11ALLB	Date Received:	04/22/11
Sample Location:	SOMERVILLE, MA	Field Prep:	Not Specified
Matrix:	Air		
Anaytical Method:	101,TO15-SIM		
Analytical Date:	05/02/11 20:40		
Analyst:	BS		

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
MCP Volatile Organics in Air by SIM - Mansfield Lab								
1,1,2,2-Tetrachloroethane	ND	0.020	0.010	ND	0.137	0.069		1
1,1,2-Trichloroethane	ND	0.020	0.010	ND	0.109	0.055		1
1,1-Dichloroethane	0.013	0.020	0.010	0.053	0.081	0.040	J	1
1,2-Dibromoethane	ND	0.020	0.010	ND	0.154	0.077		1
1,2-Dichlorobenzene	ND	0.020	0.010	ND	0.120	0.060		1
1,2-Dichloroethane	0.025	0.020	0.010	0.101	0.081	0.040		1
1,2-Dichloropropane	ND	0.020	0.010	ND	0.092	0.046		1
1,3-Dichlorobenzene	ND	0.020	0.010	ND	0.120	0.060		1
1,4-Dichlorobenzene	ND	0.020	0.010	ND	0.120	0.060		1
Bromodichloromethane	ND	0.020	0.010	ND	0.134	0.067		1
Carbon tetrachloride	0.056	0.020	0.010	0.352	0.126	0.063		1
Chlorobenzene	ND	0.020	0.010	ND	0.092	0.046		1
cis-1,3-Dichloropropene	ND	0.020	0.010	ND	0.091	0.045		1
Dibromochloromethane	ND	0.020	0.010	ND	0.170	0.085		1
trans-1,3-Dichloropropene	ND	0.020	0.010	ND	0.091	0.045		1
Trichloroethene	ND	0.020	0.010	ND	0.107	0.054		1
Vinyl chloride	ND	0.020	0.010	ND	0.051	0.026		1



Project Name: KILEY BARREL**Lab Number:** L1105626**Project Number:** 113338**Report Date:** 05/06/11**SAMPLE RESULTS**

Lab ID:	L1105626-05	Date Collected:	04/22/11 15:30
Client ID:	11ALLB	Date Received:	04/22/11
Sample Location:	SOMERVILLE, MA	Field Prep:	Not Specified

Parameter	ppbV			ug/m3			Dilution Factor
	Results	RL	MDL	Results	RL	MDL	
MCP Volatile Organics in Air by SIM - Mansfield Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria
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Bromofluorobenzene	108	70-130
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Internal Standard	% Recovery	Qualifier	Acceptance Criteria
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1,4-difluorobenzene	93	60-140
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bromochloromethane	98	60-140
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chlorobenzene-d5	95	60-140
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Project Name: KILEY BARREL**Lab Number:** L1105626**Project Number:** 113338**Report Date:** 05/06/11**SAMPLE RESULTS**

Lab ID:	L1105626-06	Date Collected:	04/22/11 13:33
Client ID:	SG-4	Date Received:	04/22/11
Sample Location:	SOMERVILLE, MA	Field Prep:	Not Specified
Matrix:	Soil_Vapor		
Anaytical Method:	101,TO-15		
Analytical Date:	05/02/11 21:17		
Analyst:	BS		

Parameter	Results	ppbV		ug/m3		Qualifier	Dilution Factor
		RL	MDL	Results	RL		
MCP Volatile Organics in Air - Mansfield Lab							
Propylene	2.70	0.500	0.250	4.64	0.860	0.430	1
Dichlorodifluoromethane	0.449	0.200	0.100	2.22	0.988	0.494	1
Chloromethane	0.501	0.200	0.100	1.03	0.413	0.207	1
Freon-114	ND	0.200	0.100	ND	1.40	0.700	1
1,3-Butadiene	ND	0.200	0.100	ND	0.442	0.221	1
Bromomethane	ND	0.200	0.100	ND	0.776	0.388	1
Chloroethane	ND	0.200	0.100	ND	0.527	0.264	1
Ethyl Alcohol	4.16	2.50	1.25	7.83	4.71	2.36	1
Acetone	450	1.00	0.500	1070	2.37	1.19	E
Trichlorofluoromethane	0.203	0.200	0.100	1.14	1.12	0.560	1
iso-Propyl Alcohol	6.86	0.500	0.250	16.8	1.23	0.615	1
1,1-Dichloroethene	ND	0.200	0.100	ND	0.792	0.396	1
Methylene chloride	ND	1.40	0.700	ND	4.86	2.43	1
Carbon disulfide	ND	0.200	0.100	ND	0.622	0.311	1
Freon-113	ND	0.200	0.100	ND	1.53	0.765	1
trans-1,2-Dichloroethene	ND	0.200	0.100	ND	0.792	0.396	1
Methyl tert butyl ether	ND	0.200	0.100	ND	0.720	0.360	1
Vinyl acetate	ND	0.200	0.100	ND	0.704	0.352	1
2-Butanone	15.1	0.200	0.100	44.5	0.589	0.295	1
cis-1,2-Dichloroethene	ND	0.200	0.100	ND	0.792	0.396	1
Ethyl Acetate	ND	0.500	0.250	ND	1.80	0.900	1
Chloroform	0.101	0.200	0.100	0.493	0.976	0.488	J
Tetrahydrofuran	ND	0.200	0.100	ND	0.589	0.295	1
n-Hexane	0.159	0.200	0.100	0.560	0.704	0.352	J
1,1,1-Trichloroethane	ND	0.200	0.100	ND	1.09	0.545	1



Project Name: KILEY BARREL**Lab Number:** L1105626**Project Number:** 113338**Report Date:** 05/06/11**SAMPLE RESULTS**

Lab ID:	L1105626-06	Date Collected:	04/22/11 13:33
Client ID:	SG-4	Date Received:	04/22/11
Sample Location:	SOMERVILLE, MA	Field Prep:	Not Specified

Parameter	Results	ppbV		ug/m3		Qualifier	Dilution Factor
		RL	MDL	RL	MDL		
MCP Volatile Organics in Air - Mansfield Lab							
Benzene	12.5	0.200	0.100	39.9	0.638	0.319	1
Cyclohexane	ND	0.200	0.100	ND	0.688	0.344	1
Heptane	0.275	0.200	0.100	1.13	0.819	0.410	1
4-Methyl-2-pentanone	ND	0.200	0.100	ND	0.819	0.410	1
Toluene	0.717	0.200	0.100	2.70	0.753	0.377	1
2-Hexanone	2.71	0.200	0.100	11.1	0.819	0.410	1
Tetrachloroethene	1.08	0.200	0.100	7.29	1.36	0.680	1
Ethylbenzene	ND	0.200	0.100	ND	0.868	0.434	1
p/m-Xylene	ND	0.400	0.200	ND	1.74	0.870	1
Bromoform	ND	0.200	0.100	ND	2.06	1.03	1
Styrene	ND	0.200	0.100	ND	0.851	0.426	1
o-Xylene	ND	0.200	0.100	ND	0.868	0.434	1
4-Ethyltoluene	ND	0.200	0.100	ND	0.982	0.491	1
1,3,5-Trimethylbenzene	ND	0.200	0.100	ND	0.982	0.491	1
1,2,4-Trimethylbenzene	0.149	0.200	0.100	0.732	0.982	0.491	J 1
Benzyl chloride	ND	0.200	0.100	ND	1.03	0.515	1
1,2,4-Trichlorobenzene	ND	0.200	0.100	ND	1.48	0.740	1
Hexachlorobutadiene	ND	0.200	0.100	ND	2.13	1.07	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Bromofluorobenzene	113		70-130

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	100		60-140
Bromochloromethane	107		60-140
chlorobenzene-d5	100		60-140



Project Name: KILEY BARREL**Lab Number:** L1105626**Project Number:** 113338**Report Date:** 05/06/11**SAMPLE RESULTS**

Lab ID:	L1105626-06	Date Collected:	04/22/11 13:33
Client ID:	SG-4	Date Received:	04/22/11
Sample Location:	SOMERVILLE, MA	Field Prep:	Not Specified
Matrix:	Soil_Vapor		
Anaytical Method:	101,TO15-SIM		
Analytical Date:	05/02/11 21:17		
Analyst:	BS		

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
MCP Volatile Organics in Air by SIM - Mansfield Lab								
1,1,2,2-Tetrachloroethane	ND	0.020	0.010	ND	0.137	0.069		1
1,1,2-Trichloroethane	ND	0.020	0.010	ND	0.109	0.055		1
1,1-Dichloroethane	ND	0.020	0.010	ND	0.081	0.040		1
1,2-Dibromoethane	ND	0.020	0.010	ND	0.154	0.077		1
1,2-Dichlorobenzene	ND	0.020	0.010	ND	0.120	0.060		1
1,2-Dichloroethane	0.014	0.020	0.010	0.057	0.081	0.040	J	1
1,2-Dichloropropane	ND	0.020	0.010	ND	0.092	0.046		1
1,3-Dichlorobenzene	ND	0.020	0.010	ND	0.120	0.060		1
1,4-Dichlorobenzene	ND	0.020	0.010	ND	0.120	0.060		1
Bromodichloromethane	ND	0.020	0.010	ND	0.134	0.067		1
Carbon tetrachloride	0.044	0.020	0.010	0.276	0.126	0.063		1
Chlorobenzene	0.139	0.020	0.010	0.639	0.092	0.046		1
cis-1,3-Dichloropropene	ND	0.020	0.010	ND	0.091	0.045		1
Dibromochloromethane	ND	0.020	0.010	ND	0.170	0.085		1
trans-1,3-Dichloropropene	ND	0.020	0.010	ND	0.091	0.045		1
Trichloroethene	ND	0.020	0.010	ND	0.107	0.054		1
Vinyl chloride	ND	0.020	0.010	ND	0.051	0.026		1



Project Name: KILEY BARREL**Lab Number:** L1105626**Project Number:** 113338**Report Date:** 05/06/11**SAMPLE RESULTS**

Lab ID:	L1105626-06	Date Collected:	04/22/11 13:33
Client ID:	SG-4	Date Received:	04/22/11
Sample Location:	SOMERVILLE, MA	Field Prep:	Not Specified

Parameter	ppbV			ug/m3			Dilution Factor
	Results	RL	MDL	Results	RL	MDL	
MCP Volatile Organics in Air by SIM - Mansfield Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria
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Bromofluorobenzene	116	70-130
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Internal Standard	% Recovery	Qualifier	Acceptance Criteria
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1,4-difluorobenzene	90	60-140
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bromochloromethane	94	60-140
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chlorobenzene-d5	92	60-140
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Project Name: KILEY BARREL**Lab Number:** L1105626**Project Number:** 113338**Report Date:** 05/06/11**SAMPLE RESULTS**

Lab ID:	L1105626-06 D	Date Collected:	04/22/11 13:33
Client ID:	SG-4	Date Received:	04/22/11
Sample Location:	SOMERVILLE, MA	Field Prep:	Not Specified
Matrix:	Soil_Vapor		
Anaytical Method:	101,TO-15		
Analytical Date:	05/03/11 09:38		
Analyst:	BS		

Parameter	ppbV			ug/m3			Dilution Factor
	Results	RL	MDL	Results	RL	MDL	
MCP Volatile Organics in Air - Mansfield Lab							
Acetone	377	10.0	5.00	895	23.7	11.9	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Bromofluorobenzene	100		70-130

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	96		60-140
Bromochloromethane	105		60-140
chlorobenzene-d5	92		60-140

Project Name: KILEY BARREL**Lab Number:** L1105626**Project Number:** 113338**Report Date:** 05/06/11**SAMPLE RESULTS**

Lab ID:	L1105626-07	Date Collected:	04/22/11 15:08
Client ID:	SG-2	Date Received:	04/22/11
Sample Location:	SOMERVILLE, MA	Field Prep:	Not Specified
Matrix:	Soil_Vapor		
Anaytical Method:	101,TO-15		
Analytical Date:	05/02/11 21:55		
Analyst:	BS		

Parameter	Results	ppbV		ug/m3		Qualifier	Dilution Factor
		RL	MDL	Results	RL	MDL	
MCP Volatile Organics in Air - Mansfield Lab							
Propylene	0.449	0.500	0.250	0.772	0.860	0.430	J 1
Dichlorodifluoromethane	0.484	0.200	0.100	2.39	0.988	0.494	1
Chloromethane	0.362	0.200	0.100	0.747	0.413	0.207	1
Freon-114	ND	0.200	0.100	ND	1.40	0.700	1
1,3-Butadiene	ND	0.200	0.100	ND	0.442	0.221	1
Bromomethane	ND	0.200	0.100	ND	0.776	0.388	1
Chloroethane	ND	0.200	0.100	ND	0.527	0.264	1
Ethyl Alcohol	1.27	2.50	1.25	2.39	4.71	2.36	J 1
Acetone	3.32	1.00	0.500	7.87	2.37	1.19	1
Trichlorofluoromethane	0.207	0.200	0.100	1.16	1.12	0.560	1
iso-Propyl Alcohol	ND	0.500	0.250	ND	1.23	0.615	1
1,1-Dichloroethene	ND	0.200	0.100	ND	0.792	0.396	1
Methylene chloride	1.62	1.40	0.700	5.63	4.86	2.43	1
Carbon disulfide	ND	0.200	0.100	ND	0.622	0.311	1
Freon-113	ND	0.200	0.100	ND	1.53	0.765	1
trans-1,2-Dichloroethene	ND	0.200	0.100	ND	0.792	0.396	1
Methyl tert butyl ether	ND	0.200	0.100	ND	0.720	0.360	1
Vinyl acetate	ND	0.200	0.100	ND	0.704	0.352	1
2-Butanone	0.267	0.200	0.100	0.787	0.589	0.295	1
cis-1,2-Dichloroethene	ND	0.200	0.100	ND	0.792	0.396	1
Ethyl Acetate	ND	0.500	0.250	ND	1.80	0.900	1
Chloroform	ND	0.200	0.100	ND	0.976	0.488	1
Tetrahydrofuran	ND	0.200	0.100	ND	0.589	0.295	1
n-Hexane	ND	0.200	0.100	ND	0.704	0.352	1
1,1,1-Trichloroethane	ND	0.200	0.100	ND	1.09	0.545	1



Project Name: KILEY BARREL**Lab Number:** L1105626**Project Number:** 113338**Report Date:** 05/06/11**SAMPLE RESULTS**

Lab ID:	L1105626-07	Date Collected:	04/22/11 15:08
Client ID:	SG-2	Date Received:	04/22/11
Sample Location:	SOMERVILLE, MA	Field Prep:	Not Specified

Parameter	Results	ppbV		ug/m3		Qualifier	Dilution Factor
		RL	MDL	Results	RL		
MCP Volatile Organics in Air - Mansfield Lab							
Benzene	0.217	0.200	0.100	0.693	0.638	0.319	1
Cyclohexane	ND	0.200	0.100	ND	0.688	0.344	1
Heptane	ND	0.200	0.100	ND	0.819	0.410	1
4-Methyl-2-pentanone	ND	0.200	0.100	ND	0.819	0.410	1
Toluene	1.74	0.200	0.100	6.56	0.753	0.377	1
2-Hexanone	ND	0.200	0.100	ND	0.819	0.410	1
Tetrachloroethene	ND	0.200	0.100	ND	1.36	0.680	1
Ethylbenzene	0.107	0.200	0.100	0.464	0.868	0.434	J 1
p/m-Xylene	0.346	0.400	0.200	1.50	1.74	0.870	J 1
Bromoform	ND	0.200	0.100	ND	2.06	1.03	1
Styrene	ND	0.200	0.100	ND	0.851	0.426	1
o-Xylene	0.106	0.200	0.100	0.460	0.868	0.434	J 1
4-Ethyltoluene	ND	0.200	0.100	ND	0.982	0.491	1
1,3,5-Trimethylbenzene	ND	0.200	0.100	ND	0.982	0.491	1
1,2,4-Trimethylbenzene	ND	0.200	0.100	ND	0.982	0.491	1
Benzyl chloride	ND	0.200	0.100	ND	1.03	0.515	1
1,2,4-Trichlorobenzene	ND	0.200	0.100	ND	1.48	0.740	1
Hexachlorobutadiene	ND	0.200	0.100	ND	2.13	1.07	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Bromofluorobenzene	112		70-130

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	100		60-140
Bromochloromethane	104		60-140
chlorobenzene-d5	99		60-140



Project Name: KILEY BARREL**Lab Number:** L1105626**Project Number:** 113338**Report Date:** 05/06/11**SAMPLE RESULTS**

Lab ID:	L1105626-07	Date Collected:	04/22/11 15:08
Client ID:	SG-2	Date Received:	04/22/11
Sample Location:	SOMERVILLE, MA	Field Prep:	Not Specified
Matrix:	Soil_Vapor		
Anaytical Method:	101,TO15-SIM		
Analytical Date:	05/02/11 21:55		
Analyst:	BS		

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
MCP Volatile Organics in Air by SIM - Mansfield Lab								
1,1,2,2-Tetrachloroethane	ND	0.020	0.010	ND	0.137	0.069		1
1,1,2-Trichloroethane	ND	0.020	0.010	ND	0.109	0.055		1
1,1-Dichloroethane	0.029	0.020	0.010	0.117	0.081	0.040		1
1,2-Dibromoethane	ND	0.020	0.010	ND	0.154	0.077		1
1,2-Dichlorobenzene	ND	0.020	0.010	ND	0.120	0.060		1
1,2-Dichloroethane	0.014	0.020	0.010	0.057	0.081	0.040	J	1
1,2-Dichloropropane	ND	0.020	0.010	ND	0.092	0.046		1
1,3-Dichlorobenzene	ND	0.020	0.010	ND	0.120	0.060		1
1,4-Dichlorobenzene	ND	0.020	0.010	ND	0.120	0.060		1
Bromodichloromethane	ND	0.020	0.010	ND	0.134	0.067		1
Carbon tetrachloride	0.058	0.020	0.010	0.364	0.126	0.063		1
Chlorobenzene	ND	0.020	0.010	ND	0.092	0.046		1
cis-1,3-Dichloropropene	ND	0.020	0.010	ND	0.091	0.045		1
Dibromochloromethane	ND	0.020	0.010	ND	0.170	0.085		1
trans-1,3-Dichloropropene	ND	0.020	0.010	ND	0.091	0.045		1
Trichloroethene	0.018	0.020	0.010	0.097	0.107	0.054	J	1
Vinyl chloride	ND	0.020	0.010	ND	0.051	0.026		1



Project Name: KILEY BARREL**Lab Number:** L1105626**Project Number:** 113338**Report Date:** 05/06/11**SAMPLE RESULTS**

Lab ID:	L1105626-07	Date Collected:	04/22/11 15:08
Client ID:	SG-2	Date Received:	04/22/11
Sample Location:	SOMERVILLE, MA	Field Prep:	Not Specified

Parameter	ppbV			ug/m3			Dilution Factor
	Results	RL	MDL	Results	RL	MDL	
MCP Volatile Organics in Air by SIM - Mansfield Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria
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Bromofluorobenzene	112	70-130
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Internal Standard	% Recovery	Qualifier	Acceptance Criteria
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1,4-difluorobenzene	89	60-140
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bromochloromethane	94	60-140
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chlorobenzene-d5	92	60-140
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Project Name: KILEY BARREL**Lab Number:** L1105626**Project Number:** 113338**Report Date:** 05/06/11**SAMPLE RESULTS**

Lab ID:	L1105626-08	Date Collected:	04/22/11 16:01
Client ID:	SG-3	Date Received:	04/22/11
Sample Location:	SOMERVILLE, MA	Field Prep:	Not Specified
Matrix:	Soil_Vapor		
Anaytical Method:	101,TO-15		
Analytical Date:	05/02/11 23:12		
Analyst:	BS		

Parameter	Results	ppbV		ug/m3		Qualifier	Dilution Factor
		RL	MDL	RL	MDL		
MCP Volatile Organics in Air - Mansfield Lab							
Propylene	ND	0.500	0.250	ND	0.860	0.430	1
Dichlorodifluoromethane	ND	0.200	0.100	ND	0.988	0.494	1
Chloromethane	ND	0.200	0.100	ND	0.413	0.207	1
Freon-114	ND	0.200	0.100	ND	1.40	0.700	1
1,3-Butadiene	ND	0.200	0.100	ND	0.442	0.221	1
Bromomethane	ND	0.200	0.100	ND	0.776	0.388	1
Chloroethane	ND	0.200	0.100	ND	0.527	0.264	1
Ethyl Alcohol	ND	2.50	1.25	ND	4.71	2.36	1
Acetone	0.939	1.00	0.500	2.23	2.37	1.19	J
Trichlorofluoromethane	ND	0.200	0.100	ND	1.12	0.560	1
iso-Propyl Alcohol	0.433	0.500	0.250	1.06	1.23	0.615	J
1,1-Dichloroethene	ND	0.200	0.100	ND	0.792	0.396	1
Methylene chloride	ND	1.40	0.700	ND	4.86	2.43	1
Carbon disulfide	ND	0.200	0.100	ND	0.622	0.311	1
Freon-113	ND	0.200	0.100	ND	1.53	0.765	1
trans-1,2-Dichloroethene	ND	0.200	0.100	ND	0.792	0.396	1
Methyl tert butyl ether	ND	0.200	0.100	ND	0.720	0.360	1
Vinyl acetate	ND	0.200	0.100	ND	0.704	0.352	1
2-Butanone	0.169	0.200	0.100	0.498	0.589	0.295	J
cis-1,2-Dichloroethene	ND	0.200	0.100	ND	0.792	0.396	1
Ethyl Acetate	ND	0.500	0.250	ND	1.80	0.900	1
Chloroform	ND	0.200	0.100	ND	0.976	0.488	1
Tetrahydrofuran	ND	0.200	0.100	ND	0.589	0.295	1
n-Hexane	ND	0.200	0.100	ND	0.704	0.352	1
1,1,1-Trichloroethane	ND	0.200	0.100	ND	1.09	0.545	1



Project Name: KILEY BARREL**Lab Number:** L1105626**Project Number:** 113338**Report Date:** 05/06/11**SAMPLE RESULTS**

Lab ID: L1105626-08 Date Collected: 04/22/11 16:01
 Client ID: SG-3 Date Received: 04/22/11
 Sample Location: SOMERVILLE, MA Field Prep: Not Specified

Parameter	ppbV			ug/m3			Dilution Factor
	Results	RL	MDL	Results	RL	MDL	
MCP Volatile Organics in Air - Mansfield Lab							
Benzene	0.229	0.200	0.100	0.731	0.638	0.319	1
Cyclohexane	ND	0.200	0.100	ND	0.688	0.344	1
Heptane	ND	0.200	0.100	ND	0.819	0.410	1
4-Methyl-2-pentanone	ND	0.200	0.100	ND	0.819	0.410	1
Toluene	0.330	0.200	0.100	1.24	0.753	0.377	1
2-Hexanone	ND	0.200	0.100	ND	0.819	0.410	1
Tetrachloroethene	ND	0.200	0.100	ND	1.36	0.680	1
Ethylbenzene	ND	0.200	0.100	ND	0.868	0.434	1
p/m-Xylene	ND	0.400	0.200	ND	1.74	0.870	1
Bromoform	ND	0.200	0.100	ND	2.06	1.03	1
Styrene	0.503	0.200	0.100	2.14	0.851	0.426	1
o-Xylene	ND	0.200	0.100	ND	0.868	0.434	1
4-Ethyltoluene	ND	0.200	0.100	ND	0.982	0.491	1
1,3,5-Trimethylbenzene	ND	0.200	0.100	ND	0.982	0.491	1
1,2,4-Trimethylbenzene	ND	0.200	0.100	ND	0.982	0.491	1
Benzyl chloride	ND	0.200	0.100	ND	1.03	0.515	1
1,2,4-Trichlorobenzene	ND	0.200	0.100	ND	1.48	0.740	1
Hexachlorobutadiene	ND	0.200	0.100	ND	2.13	1.07	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Bromofluorobenzene	102		70-130

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	84		60-140
Bromochloromethane	97		60-140
chlorobenzene-d5	85		60-140



Project Name: KILEY BARREL**Lab Number:** L1105626**Project Number:** 113338**Report Date:** 05/06/11**SAMPLE RESULTS**

Lab ID:	L1105626-08	Date Collected:	04/22/11 16:01
Client ID:	SG-3	Date Received:	04/22/11
Sample Location:	SOMERVILLE, MA	Field Prep:	Not Specified
Matrix:	Soil_Vapor		
Anaytical Method:	101,TO15-SIM		
Analytical Date:	05/02/11 23:12		
Analyst:	BS		

Parameter	ppbV			ug/m3			Dilution Factor
	Results	RL	MDL	Results	RL	MDL	
MCP Volatile Organics in Air by SIM - Mansfield Lab							
1,1,2,2-Tetrachloroethane	ND	0.020	0.010	ND	0.137	0.069	1
1,1,2-Trichloroethane	ND	0.020	0.010	ND	0.109	0.055	1
1,1-Dichloroethane	ND	0.020	0.010	ND	0.081	0.040	1
1,2-Dibromoethane	ND	0.020	0.010	ND	0.154	0.077	1
1,2-Dichlorobenzene	ND	0.020	0.010	ND	0.120	0.060	1
1,2-Dichloroethane	ND	0.020	0.010	ND	0.081	0.040	1
1,2-Dichloropropane	ND	0.020	0.010	ND	0.092	0.046	1
1,3-Dichlorobenzene	ND	0.020	0.010	ND	0.120	0.060	1
1,4-Dichlorobenzene	0.385	0.020	0.010	2.31	0.120	0.060	1
Bromodichloromethane	ND	0.020	0.010	ND	0.134	0.067	1
Carbon tetrachloride	ND	0.020	0.010	ND	0.126	0.063	1
Chlorobenzene	ND	0.020	0.010	ND	0.092	0.046	1
cis-1,3-Dichloropropene	ND	0.020	0.010	ND	0.091	0.045	1
Dibromochloromethane	ND	0.020	0.010	ND	0.170	0.085	1
trans-1,3-Dichloropropene	ND	0.020	0.010	ND	0.091	0.045	1
Trichloroethene	0.129	0.020	0.010	0.693	0.107	0.054	1
Vinyl chloride	ND	0.020	0.010	ND	0.051	0.026	1



Project Name: KILEY BARREL**Lab Number:** L1105626**Project Number:** 113338**Report Date:** 05/06/11**SAMPLE RESULTS**

Lab ID:	L1105626-08	Date Collected:	04/22/11 16:01
Client ID:	SG-3	Date Received:	04/22/11
Sample Location:	SOMERVILLE, MA	Field Prep:	Not Specified

Parameter	ppbV			ug/m3			Dilution Factor
	Results	RL	MDL	Results	RL	MDL	
MCP Volatile Organics in Air by SIM - Mansfield Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria
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Bromofluorobenzene	101	70-130
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Internal Standard	% Recovery	Qualifier	Acceptance Criteria
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1,4-difluorobenzene	75	60-140
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bromochloromethane	86	60-140
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chlorobenzene-d5	80	60-140
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Project Name: KILEY BARREL**Lab Number:** L1105626**Project Number:** 113338**Report Date:** 05/06/11**SAMPLE RESULTS**

Lab ID:	L1105626-09	Date Collected:	04/22/11 17:12
Client ID:	SG-1	Date Received:	04/22/11
Sample Location:	SOMERVILLE, MA	Field Prep:	Not Specified
Matrix:	Soil_Vapor		
Anaytical Method:	101,TO-15		
Analytical Date:	05/02/11 23:51		
Analyst:	BS		

Parameter	Results	ppbV		ug/m3		Qualifier	Dilution Factor
		RL	MDL	Results	RL	MDL	
MCP Volatile Organics in Air - Mansfield Lab							
Propylene	0.312	0.500	0.250	0.536	0.860	0.430	J 1
Dichlorodifluoromethane	0.429	0.200	0.100	2.12	0.988	0.494	1
Chloromethane	0.492	0.200	0.100	1.02	0.413	0.207	1
Freon-114	ND	0.200	0.100	ND	1.40	0.700	1
1,3-Butadiene	ND	0.200	0.100	ND	0.442	0.221	1
Bromomethane	ND	0.200	0.100	ND	0.776	0.388	1
Chloroethane	ND	0.200	0.100	ND	0.527	0.264	1
Ethyl Alcohol	20.3	2.50	1.25	38.2	4.71	2.36	1
Acetone	4.84	1.00	0.500	11.5	2.37	1.19	1
Trichlorofluoromethane	0.190	0.200	0.100	1.07	1.12	0.560	J 1
iso-Propyl Alcohol	0.444	0.500	0.250	1.09	1.23	0.615	J 1
1,1-Dichloroethene	ND	0.200	0.100	ND	0.792	0.396	1
Methylene chloride	ND	1.40	0.700	ND	4.86	2.43	1
Carbon disulfide	ND	0.200	0.100	ND	0.622	0.311	1
Freon-113	ND	0.200	0.100	ND	1.53	0.765	1
trans-1,2-Dichloroethene	ND	0.200	0.100	ND	0.792	0.396	1
Methyl tert butyl ether	ND	0.200	0.100	ND	0.720	0.360	1
Vinyl acetate	ND	0.200	0.100	ND	0.704	0.352	1
2-Butanone	0.355	0.200	0.100	1.05	0.589	0.295	1
cis-1,2-Dichloroethene	ND	0.200	0.100	ND	0.792	0.396	1
Ethyl Acetate	ND	0.500	0.250	ND	1.80	0.900	1
Chloroform	ND	0.200	0.100	ND	0.976	0.488	1
Tetrahydrofuran	ND	0.200	0.100	ND	0.589	0.295	1
n-Hexane	ND	0.200	0.100	ND	0.704	0.352	1
1,1,1-Trichloroethane	ND	0.200	0.100	ND	1.09	0.545	1



Project Name: KILEY BARREL**Lab Number:** L1105626**Project Number:** 113338**Report Date:** 05/06/11**SAMPLE RESULTS**

Lab ID:	L1105626-09	Date Collected:	04/22/11 17:12
Client ID:	SG-1	Date Received:	04/22/11
Sample Location:	SOMERVILLE, MA	Field Prep:	Not Specified

Parameter	Results	ppbV		ug/m3		Qualifier	Dilution Factor
		RL	MDL	RL	MDL		
MCP Volatile Organics in Air - Mansfield Lab							
Benzene	0.137	0.200	0.100	0.437	0.638	0.319	J 1
Cyclohexane	ND	0.200	0.100	ND	0.688	0.344	1
Heptane	ND	0.200	0.100	ND	0.819	0.410	1
4-Methyl-2-pentanone	ND	0.200	0.100	ND	0.819	0.410	1
Toluene	0.570	0.200	0.100	2.15	0.753	0.377	1
2-Hexanone	ND	0.200	0.100	ND	0.819	0.410	1
Tetrachloroethene	0.144	0.200	0.100	0.976	1.36	0.680	J 1
Ethylbenzene	ND	0.200	0.100	ND	0.868	0.434	1
p/m-Xylene	ND	0.400	0.200	ND	1.74	0.870	1
Bromoform	ND	0.200	0.100	ND	2.06	1.03	1
Styrene	ND	0.200	0.100	ND	0.851	0.426	1
o-Xylene	ND	0.200	0.100	ND	0.868	0.434	1
4-Ethyltoluene	ND	0.200	0.100	ND	0.982	0.491	1
1,3,5-Trimethylbenzene	ND	0.200	0.100	ND	0.982	0.491	1
1,2,4-Trimethylbenzene	ND	0.200	0.100	ND	0.982	0.491	1
Benzyl chloride	ND	0.200	0.100	ND	1.03	0.515	1
1,2,4-Trichlorobenzene	ND	0.200	0.100	ND	1.48	0.740	1
Hexachlorobutadiene	ND	0.200	0.100	ND	2.13	1.07	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Bromofluorobenzene	105		70-130

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	99		60-140
Bromochloromethane	111		60-140
chlorobenzene-d5	99		60-140



Project Name: KILEY BARREL**Lab Number:** L1105626**Project Number:** 113338**Report Date:** 05/06/11**SAMPLE RESULTS**

Lab ID:	L1105626-09	Date Collected:	04/22/11 17:12
Client ID:	SG-1	Date Received:	04/22/11
Sample Location:	SOMERVILLE, MA	Field Prep:	Not Specified
Matrix:	Soil_Vapor		
Anaytical Method:	101,TO15-SIM		
Analytical Date:	05/02/11 23:51		
Analyst:	BS		

Parameter	ppbV			ug/m3			Dilution Factor
	Results	RL	MDL	Results	RL	MDL	
MCP Volatile Organics in Air by SIM - Mansfield Lab							
1,1,2,2-Tetrachloroethane	ND	0.020	0.010	ND	0.137	0.069	1
1,1,2-Trichloroethane	ND	0.020	0.010	ND	0.109	0.055	1
1,1-Dichloroethane	0.023	0.020	0.010	0.093	0.081	0.040	1
1,2-Dibromoethane	ND	0.020	0.010	ND	0.154	0.077	1
1,2-Dichlorobenzene	ND	0.020	0.010	ND	0.120	0.060	1
1,2-Dichloroethane	0.026	0.020	0.010	0.105	0.081	0.040	1
1,2-Dichloropropane	ND	0.020	0.010	ND	0.092	0.046	1
1,3-Dichlorobenzene	ND	0.020	0.010	ND	0.120	0.060	1
1,4-Dichlorobenzene	ND	0.020	0.010	ND	0.120	0.060	1
Bromodichloromethane	ND	0.020	0.010	ND	0.134	0.067	1
Carbon tetrachloride	0.057	0.020	0.010	0.358	0.126	0.063	1
Chlorobenzene	ND	0.020	0.010	ND	0.092	0.046	1
cis-1,3-Dichloropropene	ND	0.020	0.010	ND	0.091	0.045	1
Dibromochloromethane	ND	0.020	0.010	ND	0.170	0.085	1
trans-1,3-Dichloropropene	ND	0.020	0.010	ND	0.091	0.045	1
Trichloroethene	0.015	0.020	0.010	0.081	0.107	0.054	J
Vinyl chloride	ND	0.020	0.010	ND	0.051	0.026	1



Project Name: KILEY BARREL**Lab Number:** L1105626**Project Number:** 113338**Report Date:** 05/06/11**SAMPLE RESULTS**

Lab ID:	L1105626-09	Date Collected:	04/22/11 17:12
Client ID:	SG-1	Date Received:	04/22/11
Sample Location:	SOMERVILLE, MA	Field Prep:	Not Specified

Parameter	ppbV			ug/m3			Dilution Factor
	Results	RL	MDL	Results	RL	MDL	
MCP Volatile Organics in Air by SIM - Mansfield Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria
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Bromofluorobenzene	105	70-130
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Internal Standard	% Recovery	Qualifier	Acceptance Criteria
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1,4-difluorobenzene	88	60-140
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bromochloromethane	101	60-140
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chlorobenzene-d5	92	60-140
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Project Name: KILEY BARREL

Lab Number: L1105626

Project Number: 113338

Report Date: 05/06/11

Method Blank Analysis

Batch Quality Control

Analytical Method: 101,TO-15
 Analytical Date: 05/02/11 17:31

Parameter	ppbV			ug/m3			Dilution Factor
	Results	RL	MDL	Results	RL	MDL	
MCP Volatile Organics in Air - Mansfield Lab for sample(s): 01-09 Batch: WG465751-4							
Propylene	ND	0.500	0.250	ND	0.860	0.430	1
Dichlorodifluoromethane	ND	0.200	0.100	ND	0.988	0.494	1
Chloromethane	ND	0.200	0.100	ND	0.413	0.207	1
Freon-114	ND	0.200	0.100	ND	1.40	0.700	1
1,3-Butadiene	ND	0.200	0.100	ND	0.442	0.221	1
Bromomethane	ND	0.200	0.100	ND	0.776	0.388	1
Chloroethane	ND	0.200	0.100	ND	0.527	0.264	1
Ethyl Alcohol	ND	2.50	1.25	ND	4.71	2.36	1
Acetone	ND	1.00	0.500	ND	2.37	1.19	1
Trichlorofluoromethane	ND	0.200	0.100	ND	1.12	0.560	1
iso-Propyl Alcohol	ND	0.500	0.250	ND	1.23	0.615	1
1,1-Dichloroethene	ND	0.200	0.100	ND	0.792	0.396	1
Methylene chloride	ND	1.40	0.700	ND	4.86	2.43	1
Carbon disulfide	ND	0.200	0.100	ND	0.622	0.311	1
Freon-113	ND	0.200	0.100	ND	1.53	0.765	1
trans-1,2-Dichloroethene	ND	0.200	0.100	ND	0.792	0.396	1
Methyl tert butyl ether	ND	0.200	0.100	ND	0.720	0.360	1
Vinyl acetate	ND	0.200	0.100	ND	0.704	0.352	1
2-Butanone	ND	0.200	0.100	ND	0.589	0.295	1
cis-1,2-Dichloroethene	ND	0.200	0.100	ND	0.792	0.396	1
Ethyl Acetate	ND	0.500	0.250	ND	1.80	0.900	1
Chloroform	ND	0.200	0.100	ND	0.976	0.488	1
Tetrahydrofuran	ND	0.200	0.100	ND	0.589	0.295	1
n-Hexane	ND	0.200	0.100	ND	0.704	0.352	1
1,1,1-Trichloroethane	ND	0.200	0.100	ND	1.09	0.545	1



Project Name: KILEY BARREL
Project Number: 113338

Lab Number: L1105626
Report Date: 05/06/11

Method Blank Analysis Batch Quality Control

Analytical Method: 101,TO-15
Analytical Date: 05/02/11 17:31

Parameter	ppbV			ug/m3			Dilution Factor
	Results	RL	MDL	Results	RL	MDL	
MCP Volatile Organics in Air - Mansfield Lab for sample(s): 01-09 Batch: WG465751-4							
Benzene	ND	0.200	0.100	ND	0.638	0.319	1
Cyclohexane	ND	0.200	0.100	ND	0.688	0.344	1
Heptane	ND	0.200	0.100	ND	0.819	0.410	1
4-Methyl-2-pentanone	ND	0.200	0.100	ND	0.819	0.410	1
Toluene	ND	0.200	0.100	ND	0.753	0.377	1
2-Hexanone	ND	0.200	0.100	ND	0.819	0.410	1
Tetrachloroethene	ND	0.200	0.100	ND	1.36	0.680	1
Ethylbenzene	ND	0.200	0.100	ND	0.868	0.434	1
p/m-Xylene	ND	0.400	0.200	ND	1.74	0.870	1
Bromoform	ND	0.200	0.100	ND	2.06	1.03	1
Styrene	ND	0.200	0.100	ND	0.851	0.426	1
o-Xylene	ND	0.200	0.100	ND	0.868	0.434	1
4-Ethyltoluene	ND	0.200	0.100	ND	0.982	0.491	1
1,3,5-Trimethylbenzene	ND	0.200	0.100	ND	0.982	0.491	1
1,2,4-Trimethylbenzene	ND	0.200	0.100	ND	0.982	0.491	1
Benzyl chloride	ND	0.200	0.100	ND	1.03	0.515	1
1,2,4-Trichlorobenzene	ND	0.200	0.100	ND	1.48	0.740	1
Hexachlorobutadiene	ND	0.200	0.100	ND	2.13	1.07	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Bromofluorobenzene	100		70-130



Project Name: KILEY BARREL
Project Number: 113338

Lab Number: L1105626
Report Date: 05/06/11

Method Blank Analysis Batch Quality Control

Analytical Method: 101,TO15-SIM
Analytical Date: 05/02/11 17:31

Parameter	ppbV			ug/m3			Dilution Factor
	Results	RL	MDL	Results	RL	MDL	
MCP Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01-09 Batch: WG465752-4							
1,1,2,2-Tetrachloroethane	ND	0.020	0.010	ND	0.137	0.069	1
1,1,2-Trichloroethane	ND	0.020	0.010	ND	0.109	0.055	1
1,1-Dichloroethane	ND	0.020	0.010	ND	0.081	0.040	1
1,2-Dibromoethane	ND	0.020	0.010	ND	0.154	0.077	1
1,2-Dichlorobenzene	ND	0.020	0.010	ND	0.120	0.060	1
1,2-Dichloroethane	ND	0.020	0.010	ND	0.081	0.040	1
1,2-Dichloropropane	ND	0.020	0.010	ND	0.092	0.046	1
1,3-Dichlorobenzene	ND	0.020	0.010	ND	0.120	0.060	1
1,4-Dichlorobenzene	ND	0.020	0.010	ND	0.120	0.060	1
Bromodichloromethane	ND	0.020	0.010	ND	0.134	0.067	1
Carbon tetrachloride	ND	0.020	0.010	ND	0.126	0.063	1
Chlorobenzene	ND	0.020	0.010	ND	0.092	0.046	1
cis-1,3-Dichloropropene	ND	0.020	0.010	ND	0.091	0.045	1
Dibromochloromethane	ND	0.020	0.010	ND	0.170	0.085	1
trans-1,3-Dichloropropene	ND	0.020	0.010	ND	0.091	0.045	1
Trichloroethene	ND	0.020	0.010	ND	0.107	0.054	1
Vinyl chloride	ND	0.020	0.010	ND	0.051	0.026	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Bromofluorobenzene	101		70-130



Lab Control Sample Analysis

Batch Quality Control

Project Name: KILEY BARREL
Project Number: 113338

Lab Number: L1105626
Report Date: 05/06/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-09 Batch: WG465751-3								
Propylene	119	-	-	-	70-130	-	-	-
Dichlorodifluoromethane	109	-	-	-	70-130	-	-	-
Chloromethane	114	-	-	-	70-130	-	-	-
Freon-114	114	-	-	-	70-130	-	-	-
1,3-Butadiene	114	-	-	-	70-130	-	-	-
Bromomethane	110	-	-	-	70-130	-	-	-
Chloroethane	104	-	-	-	70-130	-	-	-
Ethyl Alcohol	95	-	-	-	70-130	-	-	-
Acetone	94	-	-	-	50-150	-	-	-
Trichlorofluoromethane	105	-	-	-	70-130	-	-	-
iso-Propyl Alcohol	101	-	-	-	70-130	-	-	-
1,1-Dichloroethene	103	-	-	-	70-130	-	-	-
Methylene chloride	94	-	-	-	70-130	-	-	-
Carbon disulfide	103	-	-	-	70-130	-	-	-
Freon-113	104	-	-	-	70-130	-	-	-
trans-1,2-Dichloroethene	98	-	-	-	70-130	-	-	-
Methyl tert butyl ether	89	-	-	-	70-130	-	-	-
Vinyl acetate	109	-	-	-	70-130	-	-	-
2-Butanone	96	-	-	-	70-130	-	-	-
cis-1,2-Dichloroethene	103	-	-	-	70-130	-	-	-
Ethyl Acetate	106	-	-	-	70-130	-	-	-

Lab Control Sample Analysis

Batch Quality Control

Project Name: KILEY BARREL
Project Number: 113338

Lab Number: L1105626
Report Date: 05/06/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-09 Batch: WG465751-3								
Chloroform	102		-		70-130	-		
Tetrahydrofuran	95		-		70-130	-		
n-Hexane	89		-		70-130	-		
1,1,1-Trichloroethane	93		-		70-130	-		
Benzene	100		-		70-130	-		
Cyclohexane	102		-		70-130	-		
Heptane	97		-		70-130	-		
4-Methyl-2-pentanone	98		-		70-130	-		
Toluene	110		-		70-130	-		
2-Hexanone	113		-		70-130	-		
Tetrachloroethylene	116		-		70-130	-		
Ethylbenzene	113		-		70-130	-		
p/m-Xylene	113		-		70-130	-		
Bromoform	115		-		70-130	-		
Styrene	120		-		70-130	-		
o-Xylene	119		-		70-130	-		
4-Ethyltoluene	116		-		70-130	-		
1,3,5-Trimethylbenzene	113		-		70-130	-		
1,2,4-Trimethylbenzene	119		-		70-130	-		
Benzyl chloride	116		-		70-130	-		
1,2,4-Trichlorobenzene	172	Q	-		50-150	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: KILEY BARREL
Project Number: 113338

Lab Number: L1105626
Report Date: 05/06/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-09 Batch: WG465751-3								
Hexachlorobutadiene	165	Q	-	-	50-150	-	-	-

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Bromofluorobenzene	110	-	-	-	70-130

MCP Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-09 Batch: WG465752-3

1,1,2,2-Tetrachloroethane	106	-	-	70-130	-
1,1,2-Trichloroethane	98	-	-	70-130	-
1,1-Dichloroethane	91	-	-	70-130	-
1,2-Dibromoethane	112	-	-	70-130	-
1,2-Dichlorobenzene	114	-	-	70-130	-
1,2-Dichloroethane	92	-	-	70-130	-
1,2-Dichloropropane	92	-	-	70-130	-
1,3-Dichlorobenzene	118	-	-	70-130	-
1,4-Dichlorobenzene	117	-	-	70-130	-

Lab Control Sample Analysis

Batch Quality Control

Project Name: KILEY BARREL
Project Number: 113338

Lab Number: L1105626
Report Date: 05/06/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-09 Batch: WG465752-3								
Bromodichloromethane	85	-	-	-	70-130	-	-	-
Carbon tetrachloride	81	-	-	-	70-130	-	-	-
Chlorobenzene	107	-	-	-	70-130	-	-	-
cis-1,3-Dichloropropene	95	-	-	-	70-130	-	-	-
Dibromochloromethane	102	-	-	-	70-130	-	-	-
trans-1,3-Dichloropropene	80	-	-	-	70-130	-	-	-
Trichloroethene	94	-	-	-	70-130	-	-	-
Vinyl chloride	105	-	-	-	70-130	-	-	-

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Bromofluorobenzene	119	-	-	-	70-130

Lab Duplicate Analysis
Batch Quality Control

Project Name: KILEY BARREL
Project Number: 113338

Lab Number: L1105626
Report Date: 05/06/11

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
MCP Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-09 QC Batch ID: WG465751-5 QC Sample: L1105626-07 Client ID: SG-2						
Propylene	0.449J	0.329J	ppbV	NC		25
Dichlorodifluoromethane	0.484	0.423	ppbV	13		25
Chloromethane	0.362	0.350	ppbV	3		25
Freon-114	ND	ND	ppbV	NC		25
1,3-Butadiene	ND	ND	ppbV	NC		25
Bromomethane	ND	ND	ppbV	NC		25
Chloroethane	ND	ND	ppbV	NC		25
Ethyl Alcohol	1.27J	ND	ppbV	NC		25
Acetone	3.32	2.96	ppbV	11		25
Trichlorofluoromethane	0.207	0.193J	ppbV	NC		25
iso-Propyl Alcohol	ND	ND	ppbV	NC		25
1,1-Dichloroethene	ND	ND	ppbV	NC		25
Methylene chloride	1.62	1.55	ppbV	4		25
Carbon disulfide	ND	ND	ppbV	NC		25
Freon-113	ND	ND	ppbV	NC		25
trans-1,2-Dichloroethene	ND	ND	ppbV	NC		25
Methyl tert butyl ether	ND	ND	ppbV	NC		25
Vinyl acetate	ND	ND	ppbV	NC		25
2-Butanone	0.267	0.236	ppbV	12		25

Lab Duplicate Analysis
Batch Quality Control

Project Name: KILEY BARREL
Project Number: 113338

Lab Number: L1105626
Report Date: 05/06/11

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
MCP Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-09 QC Batch ID: WG465751-5 QC Sample: L1105626-07 Client ID: SG-2					
cis-1,2-Dichloroethene	ND	ND	ppbV	NC	25
Ethyl Acetate	ND	ND	ppbV	NC	25
Chloroform	ND	ND	ppbV	NC	25
Tetrahydrofuran	ND	ND	ppbV	NC	25
n-Hexane	ND	ND	ppbV	NC	25
1,1,1-Trichloroethane	ND	ND	ppbV	NC	25
Benzene	0.217	0.193J	ppbV	NC	25
Cyclohexane	ND	ND	ppbV	NC	25
Heptane	ND	ND	ppbV	NC	25
4-Methyl-2-pentanone	ND	ND	ppbV	NC	25
Toluene	1.74	1.63	ppbV	7	25
2-Hexanone	ND	ND	ppbV	NC	25
Tetrachloroethene	ND	ND	ppbV	NC	25
Ethylbenzene	0.107J	0.102J	ppbV	NC	25
p/m-Xylene	0.346J	0.322J	ppbV	NC	25
Bromoform	ND	ND	ppbV	NC	25
Styrene	ND	ND	ppbV	NC	25
o-Xylene	0.106J	0.100J	ppbV	NC	25
4-Ethyltoluene	ND	ND	ppbV	NC	25

Lab Duplicate Analysis
Batch Quality Control

Project Name: KILEY BARREL
Project Number: 113338

Lab Number: L1105626
Report Date: 05/06/11

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
MCP Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-09 QC Batch ID: WG465751-5 QC Sample: L1105626-07 Client ID: SG-2					
1,3,5-Trimethylbenzene	ND	ND	ppbV	NC	25
1,2,4-Trimethylbenzene	ND	ND	ppbV	NC	25
Benzyl chloride	ND	ND	ppbV	NC	25
1,2,4-Trichlorobenzene	ND	ND	ppbV	NC	25
Hexachlorobutadiene	ND	ND	ppbV	NC	25

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Bromofluorobenzene	112		107		70-130

Lab Duplicate Analysis
Batch Quality Control

Project Name: KILEY BARREL
Project Number: 113338

Lab Number: L1105626
Report Date: 05/06/11

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
MCP Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-09 QC Batch ID: WG465752-5 QC Sample: L1105626-07 Client ID: SG-2					
1,1,2,2-Tetrachloroethane	ND	ND	ppbV	NC	25
1,1,2-Trichloroethane	ND	ND	ppbV	NC	25
1,1-Dichloroethane	0.029	0.027	ppbV	7	25
1,2-Dibromoethane	ND	ND	ppbV	NC	25
1,2-Dichlorobenzene	ND	ND	ppbV	NC	25
1,2-Dichloroethane	0.014J	0.013J	ppbV	NC	25
1,2-Dichloropropane	ND	ND	ppbV	NC	25
1,3-Dichlorobenzene	ND	ND	ppbV	NC	25
1,4-Dichlorobenzene	ND	ND	ppbV	NC	25
Bromodichloromethane	ND	ND	ppbV	NC	25
Carbon tetrachloride	0.058	0.054	ppbV	7	25
Chlorobenzene	ND	ND	ppbV	NC	25
cis-1,3-Dichloropropene	ND	ND	ppbV	NC	25
Dibromochloromethane	ND	ND	ppbV	NC	25
trans-1,3-Dichloropropene	ND	ND	ppbV	NC	25
Trichloroethylene	0.018J	0.017J	ppbV	NC	25
Vinyl chloride	ND	ND	ppbV	NC	25

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
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Project Name: KILEY BARREL
Project Number: 113338

Lab Duplicate Analysis
Batch Quality Control

Lab Number: L1105626
Report Date: 05/06/11

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
MCP Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-09 QC Batch ID: WG465752-5 QC Sample: L1105626-07 Client ID: SG-2					
Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Bromofluorobenzene	112		109		70-130

Project Name: KILEY BARREL

Serial_No:05061116:25

Project Number: 113338

Lab Number: L1105626

Report Date: 05/06/11

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Cleaning Batch ID	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Out mL/min	Flow In mL/min	% RSD
L1105626-01	252B	0275	#20 AMB		-	-	20.0	20.0	0
L1105626-01	252B	787	6.0L Can	L1104611	-29.5	-2.5	-	-	-
L1105626-02	9ALLB	0174	#20 SV		-	-	20.0	21.5	7
L1105626-02	9ALLB	1594	6.0L Can	L1104611	-28.4	-2.0	-	-	-
L1105626-03	UPWIND	0442	#90 SV		-	-	20.0	15.5	25
L1105626-03	UPWIND	937	6.0L Can	L1104611	-29.5	2.0	-	-	-
L1105626-04	5ALLB	0377	#30 AMB		-	-	20.0	17.2	15
L1105626-04	5ALLB	970	6.0L Can	L1104611	-29.5	-2.0	-	-	-
L1105626-05	11ALLB	0026	#16 AMB		-	-	20.0	21.7	8
L1105626-05	11ALLB	1578	6.0L Can	L1104611	-29.5	-3.1	-	-	-
L1105626-06	SG-4	0364	#90 SV		-	-	200	200	0
L1105626-06	SG-4	570	2.7L Can	L1104360	-29.4	-1.9	-	-	-
L1105626-07	SG-2	0320	#90 SV		-	-	200	212	6
L1105626-07	SG-2	465	2.7L Can	L1104360	-28.8	-1.9	-	-	-
L1105626-08	SG-3	0203	#90 SV		-	-	200	200	0
L1105626-08	SG-3	460	2.7L Can	L1104360	-29.4	-0.5	-	-	-
L1105626-09	SG-1	0142	#90 SV		-	-	200	200	0



Project Name: KILEY BARREL

Serial_No:05061116:25

Project Number: 113338

Lab Number: L1105626

Report Date: 05/06/11

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Cleaning Batch ID	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Out mL/min	Flow In mL/min	% RSD
L1105626-09	SG-1	500	2.7L Can	L1104360	-29.4	-3.2	-	-	-



Air Volatiles Can Certification

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1104360
Report Date: 05/06/11

Air Canister Certification Results

Lab ID:	L1104360-01	Date Collected:	04/04/11 00:00
Client ID:	CAN 189 SHELF 8	Date Received:	04/04/11
Sample Location:		Field Prep:	Not Specified
Matrix:	Air		
Anaytical Method:	48,TO-15		
Analytical Date:	04/05/11 19:33		
Analyst:	RY		

Parameter	Results	ppbV		ug/m3		Qualifier	Dilution Factor
		RL	MDL	Results	RL	MDL	
Volatile Organics in Air (Low Level) - Mansfield Lab							
1,1,1-Trichloroethane	ND	0.200	0.061	ND	1.09	0.332	1
1,1,2,2-Tetrachloroethane	ND	0.200	0.055	ND	1.37	0.377	1
1,1,2-Trichloroethane	ND	0.200	0.067	ND	1.09	0.365	1
1,1-Dichloroethane	ND	0.200	0.077	ND	0.809	0.311	1
1,1-Dichloroethene	ND	0.200	0.057	ND	0.792	0.226	1
1,2,4-Trichlorobenzene	ND	0.200	0.074	ND	1.48	0.549	1
1,2,4-Trimethylbenzene	ND	0.200	0.069	ND	0.982	0.339	1
1,2-Dibromoethane	ND	0.200	0.078	ND	1.54	0.599	1
1,2-Dichlorobenzene	ND	0.200	0.055	ND	1.20	0.330	1
1,2-Dichloroethane	ND	0.200	0.055	ND	0.809	0.222	1
1,2-Dichloropropane	ND	0.200	0.070	ND	0.924	0.323	1
1,3,5-Trimethylbenzene	ND	0.200	0.058	ND	0.982	0.285	1
1,3-Butadiene	ND	0.200	0.080	ND	0.442	0.177	1
1,3-Dichlorobenzene	ND	0.200	0.064	ND	1.20	0.384	1
1,4-Dichlorobenzene	ND	0.200	0.048	ND	1.20	0.288	1
1,4-Dioxane	ND	0.200	0.078	ND	0.720	0.281	1
2,2,4-Trimethylpentane	ND	0.200	0.066	ND	0.934	0.308	1
2-Butanone	ND	0.200	0.072	ND	0.589	0.212	1
2-Hexanone	ND	0.200	0.060	ND	0.819	0.246	1
3-Chloropropene	ND	0.200	0.081	ND	0.626	0.253	1
4-Ethyltoluene	ND	0.200	0.078	ND	0.982	0.383	1
Acetone	ND	1.00	0.078	ND	2.37	0.185	1
Benzene	ND	0.200	0.054	ND	0.638	0.172	1
Benzyl chloride	ND	0.200	0.064	ND	1.03	0.331	1
Bromodichloromethane	ND	0.200	0.066	ND	1.34	0.442	1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1104360
Report Date: 05/06/11

Air Canister Certification Results

Lab ID:	L1104360-01	Date Collected:	04/04/11 00:00
Client ID:	CAN 189 SHELF 8	Date Received:	04/04/11
Sample Location:		Field Prep:	Not Specified

Parameter	Results	ppbV		ug/m3		Qualifier	Dilution Factor
		RL	MDL	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab							
Bromoform	ND	0.200	0.052	ND	2.06	0.537	1
Bromomethane	ND	0.200	0.037	ND	0.776	0.144	1
Carbon disulfide	ND	0.200	0.033	ND	0.622	0.103	1
Carbon tetrachloride	ND	0.200	0.052	ND	1.26	0.327	1
Chlorobenzene	ND	0.200	0.079	ND	0.920	0.363	1
Chloroethane	ND	0.200	0.077	ND	0.527	0.203	1
Chloroform	ND	0.200	0.043	ND	0.976	0.210	1
Chloromethane	ND	0.200	0.096	ND	0.413	0.198	1
cis-1,2-Dichloroethene	ND	0.200	0.059	ND	0.792	0.234	1
cis-1,3-Dichloropropene	ND	0.200	0.075	ND	0.907	0.340	1
Cyclohexane	ND	0.200	0.077	ND	0.688	0.265	1
Dibromochloromethane	ND	0.200	0.075	ND	1.70	0.638	1
Dichlorodifluoromethane	ND	0.200	0.047	ND	0.988	0.232	1
Ethanol	ND	2.50	0.542	ND	4.71	1.02	1
Ethyl Acetate	ND	0.500	0.151	ND	1.80	0.544	1
Ethylbenzene	ND	0.200	0.056	ND	0.868	0.243	1
Freon-113	ND	0.200	0.051	ND	1.53	0.390	1
Freon-114	ND	0.200	0.038	ND	1.40	0.265	1
Hexachlorobutadiene	ND	0.200	0.075	ND	2.13	0.799	1
Isopropanol	ND	0.500	0.119	ND	1.23	0.292	1
Methylene chloride	ND	1.00	0.250	ND	3.47	0.868	1
4-Methyl-2-pentanone	ND	0.200	0.074	ND	0.819	0.303	1
Methyl tert butyl ether	ND	0.200	0.057	ND	0.720	0.205	1
p/m-Xylene	ND	0.400	0.139	ND	1.74	0.603	1
o-Xylene	ND	0.200	0.063	ND	0.868	0.273	1
Heptane	ND	0.200	0.055	ND	0.819	0.225	1
n-Hexane	ND	0.200	0.078	ND	0.704	0.275	1
Propylene	ND	0.500	0.093	ND	0.860	0.160	1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1104360**Project Number:** CANISTER QC BAT**Report Date:** 05/06/11**Air Canister Certification Results**

Lab ID:	L1104360-01	Date Collected:	04/04/11 00:00
Client ID:	CAN 189 SHELF 8	Date Received:	04/04/11
Sample Location:		Field Prep:	Not Specified

Parameter	Results	ppbV		ug/m3		Qualifier	Dilution Factor
		RL	MDL	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab							
Styrene	ND	0.200	0.080	ND	0.851	0.340	1
Tetrachloroethene	ND	0.200	0.076	ND	1.36	0.515	1
Tetrahydrofuran	ND	0.200	0.080	ND	0.589	0.236	1
Toluene	ND	0.200	0.063	ND	0.753	0.237	1
trans-1,2-Dichloroethene	ND	0.200	0.074	ND	0.792	0.293	1
trans-1,3-Dichloropropene	ND	0.200	0.069	ND	0.907	0.313	1
Trichloroethene	ND	0.200	0.071	ND	1.07	0.381	1
Trichlorofluoromethane	ND	0.200	0.040	ND	1.12	0.224	1
Vinyl acetate	ND	0.200	0.068	ND	0.704	0.239	1
Vinyl bromide	ND	0.200	0.070	ND	0.874	0.306	1
Vinyl chloride	ND	0.200	0.029	ND	0.511	0.074	1
Naphthalene	ND	0.200	0.065	ND	1.05	0.340	1
Propane	ND	0.200	0.069	ND	0.606	0.209	1
Acrylonitrile	ND	0.200	0.080	ND	0.434	0.173	1
Acrolein	ND	0.500	0.114	ND	1.14	0.261	1
1,1,1,2-Tetrachloroethane	ND	0.200	0.055	ND	1.37	0.377	1
Isopropylbenzene	ND	0.200	0.053	ND	0.982	0.260	1
1,2,3-Trichloropropane	ND	0.200	0.077	ND	1.20	0.464	1
Acetonitrile	ND	0.200	0.076	ND	0.336	0.127	1
Bromobenzene	ND	0.200	0.079	ND	1.28	0.507	1
Chlorodifluoromethane	ND	0.200	0.063	ND	0.707	0.223	1
Dichlorofluoromethane	ND	0.200	0.057	ND	0.841	0.240	1
Dibromomethane	ND	0.200	0.068	ND	1.42	0.483	1
Pentane	ND	0.200	0.047	ND	0.590	0.138	1
Octane	ND	0.200	0.060	ND	0.934	0.280	1
tert-Amyl Methyl Ether	ND	0.200	0.080	ND	0.835	0.334	1
2-Chlorotoluene	ND	0.200	0.065	ND	1.03	0.336	1
4-Chlorotoluene	ND	0.200	0.076	ND	1.03	0.393	1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1104360**Project Number:** CANISTER QC BAT**Report Date:** 05/06/11**Air Canister Certification Results**

Lab ID:	L1104360-01	Date Collected:	04/04/11 00:00
Client ID:	CAN 189 SHELF 8	Date Received:	04/04/11
Sample Location:		Field Prep:	Not Specified

Parameter	Results	ppbV		ug/m3		Qualifier	Dilution Factor
		RL	MDL	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab							
2,2-Dichloropropane	ND	0.200	0.058	ND	0.923	0.268	1
1,1-Dichloropropene	ND	0.200	0.072	ND	0.907	0.326	1
Diisopropyl ether	ND	0.200	0.066	ND	0.835	0.276	1
tert-Butyl Ethyl Ether	ND	0.200	0.065	ND	0.835	0.271	1
1,2,3-Trichlorobenzene	ND	0.200	0.078	ND	1.48	0.578	1
Ethyl ether	ND	0.200	0.079	ND	0.606	0.239	1
n-Butylbenzene	ND	0.200	0.064	ND	1.10	0.351	1
sec-Butylbenzene	ND	0.200	0.073	ND	1.10	0.400	1
tert-Butylbenzene	ND	0.200	0.052	ND	1.10	0.285	1
1,2-Dibromo-3-chloropropane	ND	0.200	0.074	ND	1.93	0.715	1
p-Isopropyltoluene	ND	0.200	0.080	ND	1.10	0.439	1
n-Propylbenzene	ND	0.200	0.054	ND	0.982	0.265	1
1,3-Dichloropropane	ND	0.200	0.078	ND	0.923	0.360	1
Methanol	ND	5.00	1.12	ND	6.55	1.47	1
Butane	ND	0.200	0.050	ND	0.475	0.119	1
Nonane	ND	0.200	0.061	ND	1.05	0.320	1
Decane	ND	0.200	0.048	ND	1.16	0.279	1
Undecane	ND	0.200	0.053	ND	1.28	0.339	1
Dodecane	ND	0.200	0.080	ND	1.39	0.557	1
Butyl acetate	ND	0.500	0.101	ND	2.37	0.479	1
2,4,4-trimethyl-2-pentene	ND	0.500	0.025	ND	2.29	0.115	1
2,4,4-trimethyl-1-pentene	ND	0.500	0.029	ND	2.29	0.133	1
Tertiary butyl Alcohol	ND	0.500	0.071	ND	1.52	0.215	1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1104360**Project Number:** CANISTER QC BAT**Report Date:** 05/06/11**Air Canister Certification Results**

Lab ID:	L1104360-01	Date Collected:	04/04/11 00:00
Client ID:	CAN 189 SHELF 8	Date Received:	04/04/11
Sample Location:		Field Prep:	Not Specified

Parameter	ppbV			ug/m3			Dilution Factor
	Results	RL	MDL	Results	RL	MDL	
Volatile Organics in Air (Low Level) - Mansfield Lab							

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	96		60-140
Bromochloromethane	95		60-140
chlorobenzene-d5	91		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1104360
Report Date: 05/06/11

Air Canister Certification Results

Lab ID:	L1104360-01	Date Collected:	04/04/11 00:00
Client ID:	CAN 189 SHELF 8	Date Received:	04/04/11
Sample Location:		Field Prep:	Not Specified
Matrix:	Air		
Anaytical Method:	48,TO-15-SIM		
Analytical Date:	04/05/11 19:33		
Analyst:	RY		

Parameter	Results	ppbV		ug/m3		Qualifier	Dilution Factor
		RL	MDL	Results	RL	MDL	
Volatile Organics in Air by SIM - Mansfield Lab							
Dichlorodifluoromethane	ND	0.050	0.006	ND	0.247	0.030	1
Chloromethane	ND	0.500	0.048	ND	1.03	0.099	1
Freon-114	ND	0.050	0.005	ND	0.349	0.035	1
Vinyl chloride	ND	0.020	0.007	ND	0.051	0.018	1
1,3-Butadiene	ND	0.020	0.006	ND	0.044	0.013	1
Bromomethane	ND	0.020	0.008	ND	0.078	0.031	1
Chloroethane	ND	0.020	0.007	ND	0.053	0.018	1
Acetone	ND	2.00	0.739	ND	4.75	1.75	1
Trichlorofluoromethane	ND	0.050	0.008	ND	0.281	0.045	1
Acrylonitrile	ND	0.500	0.015	ND	1.08	0.033	1
1,1-Dichloroethene	ND	0.020	0.007	ND	0.079	0.028	1
Methylene chloride	ND	1.00	0.250	ND	3.47	0.868	1
Freon-113	ND	0.050	0.006	ND	0.383	0.046	1
Halothane	ND	0.050	0.008	ND	0.403	0.065	1
trans-1,2-Dichloroethene	ND	0.020	0.006	ND	0.079	0.024	1
1,1-Dichloroethane	ND	0.020	0.007	ND	0.081	0.028	1
Methyl tert butyl ether	ND	0.020	0.004	ND	0.072	0.014	1
2-Butanone	ND	0.500	0.025	ND	1.47	0.073	1
cis-1,2-Dichloroethene	ND	0.020	0.007	ND	0.079	0.026	1
Chloroform	ND	0.020	0.006	ND	0.098	0.029	1
1,2-Dichloroethane	ND	0.020	0.008	ND	0.081	0.032	1
1,1,1-Trichloroethane	ND	0.020	0.007	ND	0.109	0.038	1
Benzene	ND	0.100	0.021	ND	0.319	0.067	1
Carbon tetrachloride	ND	0.020	0.008	ND	0.126	0.050	1
1,2-Dichloropropane	ND	0.020	0.006	ND	0.092	0.028	1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1104360**Project Number:** CANISTER QC BAT**Report Date:** 05/06/11**Air Canister Certification Results**

Lab ID: L1104360-01 Date Collected: 04/04/11 00:00
 Client ID: CAN 189 SHELF 8 Date Received: 04/04/11
 Sample Location: Field Prep: Not Specified

Parameter	Results	ppbV		ug/m3		Qualifier	Dilution Factor
		RL	MDL	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab							
Bromodichloromethane	ND	0.020	0.008	ND	0.134	0.054	1
Trichloroethene	ND	0.020	0.007	ND	0.107	0.038	1
1,4-Dioxane	ND	0.100	0.050	ND	0.360	0.180	1
cis-1,3-Dichloropropene	ND	0.020	0.008	ND	0.091	0.036	1
4-Methyl-2-pentanone	ND	0.500	0.042	ND	2.05	0.172	1
trans-1,3-Dichloropropene	ND	0.020	0.008	ND	0.091	0.036	1
1,1,2-Trichloroethane	ND	0.020	0.009	ND	0.109	0.049	1
Toluene	ND	0.050	0.025	ND	0.188	0.094	1
Dibromochloromethane	ND	0.020	0.008	ND	0.170	0.068	1
1,2-Dibromoethane	ND	0.020	0.008	ND	0.154	0.061	1
Tetrachloroethene	ND	0.020	0.008	ND	0.136	0.054	1
1,1,1,2-Tetrachloroethane	ND	0.020	0.004	ND	0.137	0.027	1
Chlorobenzene	ND	0.020	0.008	ND	0.092	0.037	1
Ethylbenzene	ND	0.020	0.007	ND	0.087	0.030	1
p/m-Xylene	ND	0.040	0.009	ND	0.174	0.039	1
Bromoform	ND	0.020	0.015	ND	0.206	0.155	1
Styrene	ND	0.020	0.008	ND	0.085	0.034	1
1,1,2,2-Tetrachloroethane	ND	0.020	0.007	ND	0.137	0.048	1
o-Xylene	ND	0.020	0.008	ND	0.087	0.035	1
Isopropylbenzene	ND	0.500	0.046	ND	2.46	0.226	1
1,3,5-Trimethylbenzene	ND	0.020	0.005	ND	0.098	0.025	1
1,2,4-Trimethylbenzene	ND	0.020	0.007	ND	0.098	0.034	1
1,3-Dichlorobenzene	ND	0.020	0.007	ND	0.120	0.042	1
1,4-Dichlorobenzene	ND	0.020	0.008	ND	0.120	0.048	1
sec-Butylbenzene	ND	0.500	0.047	ND	2.74	0.258	1
p-Isopropyltoluene	ND	0.500	0.048	ND	2.74	0.263	1
1,2-Dichlorobenzene	ND	0.020	0.007	ND	0.120	0.042	1
n-Butylbenzene	ND	0.500	0.045	ND	2.74	0.247	1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1104360**Project Number:** CANISTER QC BAT**Report Date:** 05/06/11**Air Canister Certification Results**

Lab ID:	L1104360-01	Date Collected:	04/04/11 00:00
Client ID:	CAN 189 SHELF 8	Date Received:	04/04/11
Sample Location:		Field Prep:	Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
1,2,4-Trichlorobenzene	ND	0.050	0.010	ND	0.371	0.074		1
Naphthalene	ND	0.050	0.012	ND	0.262	0.063		1
1,2,3-Trichlorobenzene	ND	0.050	0.019	ND	0.371	0.141		1
Hexachlorobutadiene	ND	0.050	0.011	ND	0.533	0.117		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1104360**Project Number:** CANISTER QC BAT**Report Date:** 05/06/11**Air Canister Certification Results**

Lab ID:	L1104360-01	Date Collected:	04/04/11 00:00
Client ID:	CAN 189 SHELF 8	Date Received:	04/04/11
Sample Location:		Field Prep:	Not Specified

Parameter	ppbV			ug/m3			Dilution Factor
	Results	RL	MDL	Results	RL	MDL	
Volatile Organics in Air by SIM - Mansfield Lab							

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	97		60-140
bromochloromethane	102		60-140
chlorobenzene-d5	90		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1104611
Report Date: 05/06/11

Air Canister Certification Results

Lab ID:	L1104611-01	Date Collected:	04/07/11 00:00
Client ID:	CAN 725 SHELF 38	Date Received:	04/07/11
Sample Location:		Field Prep:	Not Specified
Matrix:	Air		
Anaytical Method:	48,TO-15		
Analytical Date:	04/09/11 08:30		
Analyst:	RY		

Parameter	Results	ppbV		ug/m3		Qualifier	Dilution Factor
		RL	MDL	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab							
Chlorodifluoromethane	ND	0.200	0.063	ND	0.707	0.223	1
Propylene	ND	0.500	0.093	ND	0.860	0.160	1
Propane	ND	0.200	0.069	ND	0.606	0.209	1
Dichlorodifluoromethane	ND	0.200	0.047	ND	0.988	0.232	1
Chloromethane	ND	0.200	0.096	ND	0.413	0.198	1
Freon-114	ND	0.200	0.038	ND	1.40	0.265	1
Methanol	ND	5.00	1.12	ND	6.55	1.47	1
Vinyl chloride	ND	0.200	0.029	ND	0.511	0.074	1
1,3-Butadiene	ND	0.200	0.080	ND	0.442	0.177	1
Butane	ND	0.200	0.050	ND	0.475	0.119	1
Bromomethane	ND	0.200	0.037	ND	0.776	0.144	1
Chloroethane	ND	0.200	0.077	ND	0.527	0.203	1
Ethanol	ND	2.50	0.542	ND	4.71	1.02	1
Dichlorofluoromethane	ND	0.200	0.057	ND	0.841	0.240	1
Vinyl bromide	ND	0.200	0.070	ND	0.874	0.306	1
Acrolein	ND	0.500	0.114	ND	1.14	0.261	1
Acetone	ND	1.00	0.078	ND	2.37	0.185	1
Acetonitrile	ND	0.200	0.076	ND	0.336	0.127	1
Trichlorofluoromethane	ND	0.200	0.040	ND	1.12	0.224	1
Isopropanol	ND	0.500	0.119	ND	1.23	0.292	1
Acrylonitrile	ND	0.200	0.080	ND	0.434	0.173	1
Pentane	ND	0.200	0.047	ND	0.590	0.138	1
Ethyl ether	ND	0.200	0.079	ND	0.606	0.239	1
1,1-Dichloroethene	ND	0.200	0.057	ND	0.792	0.226	1
Tertiary butyl Alcohol	ND	0.500	0.071	ND	1.52	0.215	1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1104611
Report Date: 05/06/11

Air Canister Certification Results

Lab ID:	L1104611-01	Date Collected:	04/07/11 00:00
Client ID:	CAN 725 SHELF 38	Date Received:	04/07/11
Sample Location:		Field Prep:	Not Specified

Parameter	Results	ppbV		ug/m3		Qualifier	Dilution Factor
		RL	MDL	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab							
Methylene chloride	ND	1.00	0.250	ND	3.47	0.868	1
3-Chloropropene	ND	0.200	0.081	ND	0.626	0.253	1
Carbon disulfide	ND	0.200	0.033	ND	0.622	0.103	1
Freon-113	ND	0.200	0.051	ND	1.53	0.390	1
trans-1,2-Dichloroethene	ND	0.200	0.074	ND	0.792	0.293	1
1,1-Dichloroethane	ND	0.200	0.077	ND	0.809	0.311	1
Methyl tert butyl ether	ND	0.200	0.057	ND	0.720	0.205	1
Vinyl acetate	ND	0.200	0.068	ND	0.704	0.239	1
2-Butanone	ND	0.200	0.072	ND	0.589	0.212	1
cis-1,2-Dichloroethene	ND	0.200	0.059	ND	0.792	0.234	1
Ethyl Acetate	ND	0.500	0.151	ND	1.80	0.544	1
Chloroform	ND	0.200	0.043	ND	0.976	0.210	1
Tetrahydrofuran	ND	0.200	0.080	ND	0.589	0.236	1
2,2-Dichloropropane	ND	0.200	0.058	ND	0.923	0.268	1
1,2-Dichloroethane	ND	0.200	0.055	ND	0.809	0.222	1
n-Hexane	ND	0.200	0.078	ND	0.704	0.275	1
Diisopropyl ether	ND	0.200	0.066	ND	0.835	0.276	1
tert-Butyl Ethyl Ether	ND	0.200	0.065	ND	0.835	0.271	1
1,1,1-Trichloroethane	ND	0.200	0.061	ND	1.09	0.332	1
1,1-Dichloropropene	ND	0.200	0.072	ND	0.907	0.326	1
Benzene	ND	0.200	0.054	ND	0.638	0.172	1
Carbon tetrachloride	ND	0.200	0.052	ND	1.26	0.327	1
Cyclohexane	ND	0.200	0.077	ND	0.688	0.265	1
tert-Amyl Methyl Ether	ND	0.200	0.080	ND	0.835	0.334	1
Dibromomethane	ND	0.200	0.068	ND	1.42	0.483	1
1,2-Dichloropropane	ND	0.200	0.070	ND	0.924	0.323	1
Bromodichloromethane	ND	0.200	0.066	ND	1.34	0.442	1
1,4-Dioxane	ND	0.200	0.078	ND	0.720	0.281	1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1104611**Project Number:** CANISTER QC BAT**Report Date:** 05/06/11**Air Canister Certification Results**

Lab ID: L1104611-01 Date Collected: 04/07/11 00:00
 Client ID: CAN 725 SHELF 38 Date Received: 04/07/11
 Sample Location: Field Prep: Not Specified

Parameter	Results	ppbV		ug/m3		Qualifier	Dilution Factor
		RL	MDL	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab							
Trichloroethene	ND	0.200	0.071	ND	1.07	0.381	1
2,2,4-Trimethylpentane	ND	0.200	0.066	ND	0.934	0.308	1
Heptane	ND	0.200	0.055	ND	0.819	0.225	1
2,4,4-trimethyl-1-pentene	ND	0.500	0.029	ND	2.29	0.133	1
cis-1,3-Dichloropropene	ND	0.200	0.075	ND	0.907	0.340	1
4-Methyl-2-pentanone	ND	0.200	0.074	ND	0.819	0.303	1
2,4,4-trimethyl-2-pentene	ND	0.500	0.025	ND	2.29	0.115	1
trans-1,3-Dichloropropene	ND	0.200	0.069	ND	0.907	0.313	1
1,1,2-Trichloroethane	ND	0.200	0.067	ND	1.09	0.365	1
Toluene	ND	0.200	0.063	ND	0.753	0.237	1
1,3-Dichloropropane	ND	0.200	0.078	ND	0.923	0.360	1
2-Hexanone	ND	0.200	0.060	ND	0.819	0.246	1
Dibromochloromethane	ND	0.200	0.075	ND	1.70	0.638	1
1,2-Dibromoethane	ND	0.200	0.078	ND	1.54	0.599	1
Butyl acetate	ND	0.500	0.101	ND	2.37	0.479	1
Octane	ND	0.200	0.060	ND	0.934	0.280	1
Tetrachloroethene	ND	0.200	0.076	ND	1.36	0.515	1
1,1,1,2-Tetrachloroethane	ND	0.200	0.055	ND	1.37	0.377	1
Chlorobenzene	ND	0.200	0.079	ND	0.920	0.363	1
Ethylbenzene	ND	0.200	0.056	ND	0.868	0.243	1
p/m-Xylene	ND	0.400	0.139	ND	1.74	0.603	1
Bromoform	ND	0.200	0.052	ND	2.06	0.537	1
Styrene	ND	0.200	0.080	ND	0.851	0.340	1
1,1,2,2-Tetrachloroethane	ND	0.200	0.055	ND	1.37	0.377	1
o-Xylene	ND	0.200	0.063	ND	0.868	0.273	1
1,2,3-Trichloropropane	ND	0.200	0.077	ND	1.20	0.464	1
Nonane	ND	0.200	0.061	ND	1.05	0.320	1
Isopropylbenzene	ND	0.200	0.053	ND	0.982	0.260	1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1104611
Report Date: 05/06/11

Air Canister Certification Results

Lab ID: L1104611-01 Date Collected: 04/07/11 00:00
Client ID: CAN 725 SHELF 38 Date Received: 04/07/11
Sample Location: Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab								
Bromobenzene	ND	0.200	0.079	ND	1.28	0.507		1
2-Chlorotoluene	ND	0.200	0.065	ND	1.03	0.336		1
n-Propylbenzene	ND	0.200	0.054	ND	0.982	0.265		1
4-Chlorotoluene	ND	0.200	0.076	ND	1.03	0.393		1
4-Ethyltoluene	ND	0.200	0.078	ND	0.982	0.383		1
1,3,5-Trimethylbenzene	ND	0.200	0.058	ND	0.982	0.285		1
tert-Butylbenzene	ND	0.200	0.052	ND	1.10	0.285		1
1,2,4-Trimethylbenzene	ND	0.200	0.069	ND	0.982	0.339		1
Decane	ND	0.200	0.048	ND	1.16	0.279		1
Benzyl chloride	ND	0.200	0.064	ND	1.03	0.331		1
1,3-Dichlorobenzene	ND	0.200	0.064	ND	1.20	0.384		1
1,4-Dichlorobenzene	ND	0.200	0.048	ND	1.20	0.288		1
sec-Butylbenzene	ND	0.200	0.073	ND	1.10	0.400		1
p-Isopropyltoluene	ND	0.200	0.080	ND	1.10	0.439		1
1,2-Dichlorobenzene	ND	0.200	0.055	ND	1.20	0.330		1
n-Butylbenzene	ND	0.200	0.064	ND	1.10	0.351		1
1,2-Dibromo-3-chloropropane	ND	0.200	0.074	ND	1.93	0.715		1
Undecane	ND	0.200	0.053	ND	1.28	0.339		1
Dodecane	ND	0.200	0.080	ND	1.39	0.557		1
1,2,4-Trichlorobenzene	ND	0.500	0.074	ND	3.71	0.549		1
Naphthalene	ND	0.200	0.065	ND	1.05	0.340		1
1,2,3-Trichlorobenzene	ND	0.200	0.078	ND	1.48	0.578		1
Hexachlorobutadiene	ND	0.200	0.075	ND	2.13	0.799		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1104611**Project Number:** CANISTER QC BAT**Report Date:** 05/06/11**Air Canister Certification Results**

Lab ID:	L1104611-01	Date Collected:	04/07/11 00:00
Client ID:	CAN 725 SHELF 38	Date Received:	04/07/11
Sample Location:		Field Prep:	Not Specified

Parameter	ppbV			ug/m3			Dilution Factor
	Results	RL	MDL	Results	RL	MDL	
Volatile Organics in Air (Low Level) - Mansfield Lab							

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	97		60-140
Bromochloromethane	101		60-140
chlorobenzene-d5	90		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1104611
Report Date: 05/06/11

Air Canister Certification Results

Lab ID:	L1104611-01	Date Collected:	04/07/11 00:00
Client ID:	CAN 725 SHELF 38	Date Received:	04/07/11
Sample Location:		Field Prep:	Not Specified
Matrix:	Air		
Anaytical Method:	48,TO-15-SIM		
Analytical Date:	04/09/11 08:30		
Analyst:	RY		

Parameter	Results	ppbV		ug/m3		Qualifier	Dilution Factor
		RL	MDL	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab							
Dichlorodifluoromethane	ND	0.050	0.006	ND	0.247	0.030	1
Chloromethane	ND	0.500	0.048	ND	1.03	0.099	1
Freon-114	ND	0.050	0.005	ND	0.349	0.035	1
Vinyl chloride	ND	0.020	0.007	ND	0.051	0.018	1
1,3-Butadiene	ND	0.020	0.006	ND	0.044	0.013	1
Bromomethane	ND	0.020	0.008	ND	0.078	0.031	1
Chloroethane	ND	0.020	0.007	ND	0.053	0.018	1
Acetone	ND	2.00	0.739	ND	4.75	1.75	1
Trichlorofluoromethane	ND	0.050	0.008	ND	0.281	0.045	1
Acrylonitrile	ND	0.500	0.015	ND	1.08	0.033	1
1,1-Dichloroethene	ND	0.020	0.007	ND	0.079	0.028	1
Methylene chloride	ND	1.00	0.250	ND	3.47	0.868	1
Freon-113	ND	0.050	0.006	ND	0.383	0.046	1
Halothane	ND	0.050	0.008	ND	0.403	0.065	1
trans-1,2-Dichloroethene	ND	0.020	0.006	ND	0.079	0.024	1
1,1-Dichloroethane	ND	0.020	0.007	ND	0.081	0.028	1
Methyl tert butyl ether	ND	0.020	0.004	ND	0.072	0.014	1
2-Butanone	ND	0.500	0.025	ND	1.47	0.073	1
cis-1,2-Dichloroethene	ND	0.020	0.007	ND	0.079	0.026	1
Chloroform	ND	0.020	0.006	ND	0.098	0.029	1
1,2-Dichloroethane	ND	0.020	0.008	ND	0.081	0.032	1
1,1,1-Trichloroethane	ND	0.020	0.007	ND	0.109	0.038	1
Benzene	ND	0.100	0.021	ND	0.319	0.067	1
Carbon tetrachloride	ND	0.020	0.008	ND	0.126	0.050	1
1,2-Dichloropropane	ND	0.020	0.006	ND	0.092	0.028	1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1104611**Project Number:** CANISTER QC BAT**Report Date:** 05/06/11**Air Canister Certification Results**

Lab ID: L1104611-01 Date Collected: 04/07/11 00:00
 Client ID: CAN 725 SHELF 38 Date Received: 04/07/11
 Sample Location: Field Prep: Not Specified

Parameter	Results	ppbV		ug/m3		Qualifier	Dilution Factor
		RL	MDL	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab							
Bromodichloromethane	ND	0.020	0.008	ND	0.134	0.054	1
Trichloroethene	ND	0.020	0.007	ND	0.107	0.038	1
1,4-Dioxane	ND	0.100	0.050	ND	0.360	0.180	1
cis-1,3-Dichloropropene	ND	0.020	0.008	ND	0.091	0.036	1
4-Methyl-2-pentanone	ND	0.500	0.042	ND	2.05	0.172	1
trans-1,3-Dichloropropene	ND	0.020	0.008	ND	0.091	0.036	1
1,1,2-Trichloroethane	ND	0.020	0.009	ND	0.109	0.049	1
Toluene	ND	0.050	0.025	ND	0.188	0.094	1
Dibromochloromethane	ND	0.020	0.008	ND	0.170	0.068	1
1,2-Dibromoethane	ND	0.020	0.008	ND	0.154	0.061	1
Tetrachloroethene	ND	0.020	0.008	ND	0.136	0.054	1
1,1,1,2-Tetrachloroethane	ND	0.020	0.004	ND	0.137	0.027	1
Chlorobenzene	ND	0.020	0.008	ND	0.092	0.037	1
Ethylbenzene	ND	0.020	0.007	ND	0.087	0.030	1
p/m-Xylene	ND	0.040	0.009	ND	0.174	0.039	1
Bromoform	ND	0.020	0.015	ND	0.206	0.155	1
Styrene	ND	0.020	0.008	ND	0.085	0.034	1
1,1,2,2-Tetrachloroethane	ND	0.020	0.007	ND	0.137	0.048	1
o-Xylene	ND	0.020	0.008	ND	0.087	0.035	1
Isopropylbenzene	ND	0.500	0.046	ND	2.46	0.226	1
1,3,5-Trimethylbenzene	ND	0.020	0.005	ND	0.098	0.025	1
1,2,4-Trimethylbenzene	ND	0.020	0.007	ND	0.098	0.034	1
1,3-Dichlorobenzene	ND	0.020	0.007	ND	0.120	0.042	1
1,4-Dichlorobenzene	ND	0.020	0.008	ND	0.120	0.048	1
sec-Butylbenzene	ND	0.500	0.047	ND	2.74	0.258	1
p-Isopropyltoluene	ND	0.500	0.048	ND	2.74	0.263	1
1,2-Dichlorobenzene	ND	0.020	0.007	ND	0.120	0.042	1
n-Butylbenzene	ND	0.500	0.045	ND	2.74	0.247	1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1104611**Project Number:** CANISTER QC BAT**Report Date:** 05/06/11**Air Canister Certification Results**

Lab ID:	L1104611-01	Date Collected:	04/07/11 00:00
Client ID:	CAN 725 SHELF 38	Date Received:	04/07/11
Sample Location:		Field Prep:	Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
1,2,4-Trichlorobenzene	ND	0.050	0.010	ND	0.371	0.074		1
Naphthalene	ND	0.050	0.012	ND	0.262	0.063		1
1,2,3-Trichlorobenzene	ND	0.050	0.019	ND	0.371	0.141		1
Hexachlorobutadiene	ND	0.050	0.011	ND	0.533	0.117		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L1104611**Project Number:** CANISTER QC BAT**Report Date:** 05/06/11**Air Canister Certification Results**

Lab ID:	L1104611-01	Date Collected:	04/07/11 00:00
Client ID:	CAN 725 SHELF 38	Date Received:	04/07/11
Sample Location:		Field Prep:	Not Specified

Parameter	ppbV			ug/m3			Dilution Factor
	Results	RL	MDL	Results	RL	MDL	
Volatile Organics in Air by SIM - Mansfield Lab							

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	93		60-140
bromochloromethane	101		60-140
chlorobenzene-d5	90		60-140

AIR Petro Can Certification

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1104360
Report Date: 05/06/11

AIR CAN CERTIFICATION RESULTS

Lab ID:	L1104360-01	Date Collected:	04/04/11 00:00
Client ID:	CAN 189 SHELF 8	Date Received:	04/04/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Air		
Analytical Method:	96,APH		
Analytical Date:	04/05/11 19:33		
Analyst:	RY		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbons in Air - Mansfield Lab						
1,3-Butadiene	ND		ug/m3	2.0	2.0	1
Methyl tert butyl ether	ND		ug/m3	2.0	2.0	1
Benzene	ND		ug/m3	2.0	2.0	1
Toluene	ND		ug/m3	2.0	2.0	1
C5-C8 Aliphatics, Adjusted	ND		ug/m3	12	12.	1
Ethylbenzene	ND		ug/m3	2.0	2.0	1
p/m-Xylene	ND		ug/m3	4.0	4.0	1
o-Xylene	ND		ug/m3	2.0	2.0	1
Naphthalene	ND		ug/m3	2.0	2.0	1
C9-C12 Aliphatics, Adjusted	ND		ug/m3	14	14.	1
C9-C10 Aromatics Total	ND		ug/m3	10	10.	1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1104611
Report Date: 05/06/11

AIR CAN CERTIFICATION RESULTS

Lab ID:	L1104611-01	Date Collected:	04/07/11 00:00
Client ID:	CAN 725 SHELF 38	Date Received:	04/07/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Air		
Analytical Method:	96,APH		
Analytical Date:	04/09/11 08:30		
Analyst:	RY		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbons in Air - Mansfield Lab						
1,3-Butadiene	ND		ug/m3	2.0	2.0	1
Methyl tert butyl ether	ND		ug/m3	2.0	2.0	1
Benzene	ND		ug/m3	2.0	2.0	1
Toluene	ND		ug/m3	2.0	2.0	1
C5-C8 Aliphatics, Adjusted	ND		ug/m3	12	12.	1
Ethylbenzene	ND		ug/m3	2.0	2.0	1
p/m-Xylene	ND		ug/m3	4.0	4.0	1
o-Xylene	ND		ug/m3	2.0	2.0	1
Naphthalene	ND		ug/m3	2.0	2.0	1
C9-C12 Aliphatics, Adjusted	ND		ug/m3	14	14.	1
C9-C10 Aromatics Total	ND		ug/m3	10	10.	1

Project Name: KILEY BARREL
Project Number: 113338

Lab Number: L1105626
Report Date: 05/06/11

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler

N/A Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1105626-01A	Canister - 6 Liter	N/A	NA		Y	Absent	MCP-TO15-SIM(30),MCP-TO15(30)
L1105626-02A	Canister - 6 Liter	N/A	NA		Y	Absent	MCP-TO15-SIM(30),MCP-TO15(30)
L1105626-03A	Canister - 6 Liter	N/A	NA		Y	Absent	MCP-TO15-SIM(30),MCP-TO15(30)
L1105626-04A	Canister - 6 Liter	N/A	NA		Y	Absent	MCP-TO15-SIM(30),MCP-TO15(30)
L1105626-05A	Canister - 6 Liter	N/A	NA		Y	Absent	MCP-TO15-SIM(30),MCP-TO15(30)
L1105626-06A	Canister - 2.7 Liter	N/A	NA		Y	Absent	MCP-TO15-SIM(30),MCP-TO15(30)
L1105626-07A	Canister - 2.7 Liter	N/A	NA		Y	Absent	MCP-TO15-SIM(30),MCP-TO15(30)
L1105626-08A	Canister - 2.7 Liter	N/A	NA		Y	Absent	MCP-TO15-SIM(30),MCP-TO15(30)
L1105626-09A	Canister - 2.7 Liter	N/A	NA		Y	Absent	MCP-TO15-SIM(30),MCP-TO15(30)

*Values in parentheses indicate holding time in days

Project Name: KILEY BARREL
Project Number: 113338

Lab Number: L1105626
Report Date: 05/06/11

GLOSSARY

Acronyms

EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank.
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.

Report Format: DU "J" Qualify to 1/2 the RDL



Project Name: KILEY BARREL
Project Number: 113338

Lab Number: L1105626
Report Date: 05/06/11

Data Qualifiers

- Q** - The quality control sample exceeds the associated acceptance criteria. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above one half the RL. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at one half the reporting limit (RL) for the sample.

Report Format: DU "J" Qualify to 1/2 the RDL



Project Name: KILEY BARREL
Project Number: 113338

Lab Number: L1105626
Report Date: 05/06/11

REFERENCES

- 101 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air (EPA/625/R-96/010b:January 1999) with QC Requirements & Performance Standards for the Analysis of TO-15 under the Massachusetts Contingency Plan, WSC-CAM-IXB, July 2010.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at its own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certificate/Approval Program Summary

Last revised March 23, 2011 – Mansfield Facility

The following list includes only those analytes/methods for which certification/approval is currently held. For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0141.

Wastewater/Non-Potable Water (Inorganic Parameters: pH, Turbidity, Conductivity, Alkalinity, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Vanadium, Zinc, Total Residue (Solids), Total Suspended Solids (non-filterable), Total Cyanide. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables, Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, PAHs, Haloethers, Chlorinated Hydrocarbons, Volatile Organics.)

Solid Waste/Soil (Inorganic Parameters: pH, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Organic Carbon, Total Cyanide, Corrosivity, TCLP 1311. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Volatile Organics, Acid Extractables, Benzidines, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Florida Department of Health Certificate/Lab ID: E87814. **NELAP Accredited.**

Non-Potable Water (Inorganic Parameters: SM2320B, SM2540D, SM2540G.)

Solid & Chemical Materials (Inorganic Parameters: 6020, 7470, 7471, 9045. Organic Parameters: EPA 8260, 8270, 8082, 8081.)

Air & Emissions (EPA TO-15.)

Louisiana Department of Environmental Quality Certificate/Lab ID: 03090. **NELAP Accredited.**

Non-Potable Water (Inorganic Parameters: EPA 180.1, 245.7, 1631E, 3020, 6020A, 7470A, 9040, 9050A, SM2320B, 2540D, 2540G, 4500H-B, Organic Parameters: EPA 3510C, 3580A, 3630C, 3640A, 3660B, 3665A, 5030B, 8015D, 3570, 8081B, 8082A, 8260B, 8270C.)

Solid & Chemical Materials (Inorganic Parameters: EPA 1311, 3050, 3051A, 3060A, 6020A, 7196A, 7470A, 7471B, 7474, 9040B, 9045C, 9060. Organic Parameters: EPA 3540C, 3570B, 3580A, 3630C, 3640A, 3660, 3665A, 5035, 8015D, 8081B, 8082A, 8260B, 8270C.)

Biological Tissue (Inorganic Parameters: EPA 6020A. Organic Parameters: EPA 3570, 3510C, 3610B, 3630C, 3640A, 8270C.)

Air & Emissions (EPA TO-15.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 2206. **NELAP Accredited.**

Non-Potable Water (Inorganic Parameters: EPA, 245.1, 245.7, 1631E, 180.1, 6020A, 7470A, 9040B, 9050A, SM2540D, 2540G, 4500H+B, 2320B. Organic Parameters: EPA 8081, 8082, 8260B, 8270C.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 1311, 1312, 3050B, 3051A, 3060A, 6020A, 7470A, 7471A, 9040B, 9045C, 7196A. Organic Parameters: SW-846 3540C, 3580, 3630C, 3640A, 3660B, 3665A, 5035, 8260B, 8270C, 8015D, 8082, 8081A.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA015. **NELAP Accredited.**

Non-Potable Water (Inorganic Parameters: SW-846 1312, 3010, 3020A, 3015, SM2320B, EPA 200.8, SM2540D, 2540G, EPA 120.1, SM2510B, EPA 180.1, 245.1, 1631E, SW-846 7470A, 9040B, 6020, 9010B, 9014 Organic Parameters: SW-846 3510C, 3580A, 5030B, 5035L, 5035H, 3630C, 3640C, 3660B, 3665A, 8015B 8081A, 8082, 8260B, 8270C)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6020, 9010B, 9014, 1311, 1312, 3050B, 3051, 3060A, 7196A, 7470A, 7471A, 9040B, 9045C, 9060. Organic Parameters: SW-846 3540C, 3570, 3580A, 5030B, 5035L, 5035H, 3630C, 3640A, 3660B, 3665A, 8081A, 8082, 8260B, 8270C, 8015B.)

Atmospheric Organic Parameters (EPA TO-15)

Biological Tissue (Inorganic Parameters: SW-846 6020 Organic Parameters: SW-846 8270C, 3510C, 3570, 3630C, 3640A)

New York Department of Health Certificate/Lab ID: 11627. **NELAP Accredited**.

Non-Potable Water (Inorganic Parameters: SM2320B, SM2540D, EPA 200.8, 6020, 1631E, 245.1, 9014, 9040B, 120.1, SM2510B, 4500CN-E, 4500H-B, EPA 376.2, 180.1, 9010B. Organic Parameters: EPA 8260B, 8270C, 8081A, 8082, 3510C, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 6020, 7196A, 3060A, 7471A, 7474, 9014, 9040B, 9045C, 9010B. Organic Parameters: EPA 8260B, 8270C, 8081A, DRO 8015B, 8082, 1311, 1312, 3050B, 3580, 3570, 3051, 5035, 5030B.)

Air & Emissions (EPA TO-15.)

Rhode Island Department of Health Certificate/Lab ID: LAO00299. **NELAP Accredited via LA-DEQ**.

Refer to LA-DEQ Certificate for Non-Potable Water.

Texas Commission of Environmental Quality Certificate/Lab ID: T104704419-08-TX. **NELAP Accredited**.

Solid & Chemical Materials (Inorganic Parameters: EPA 6020, 7470, 7471, 1311, 7196, 9014, 9040, 9045, 9060. Organic Parameters: EPA 8015, 8270, 8260, 8081, 8082.)

Air (Organic Parameters: EPA TO-15)

Washington State Department of Ecology Certificate/Lab ID: C954. *Non-Potable Water* (Inorganic Parameters: SM2540D, 2510B, EPA 120.1, 180.1, 1631E, 245.7.)

Solid & Chemical Materials (Inorganic Parameters: EPA 9040, 9060, 6020, 7470, 7471, 7474. Organic Parameters: EPA 8081, 8082, 8015 Mod, 8270, 8260.)

U.S. Army Corps of Engineers

Department of Defense Certificate/Lab ID: L2217.01.

Non-Potable Water (Inorganic Parameters: EPA 6020A, SM4500H-B. Organic Parameters: 3020A, 3510C, 5030B, 8260B, 8270C, 8270C-ALK-PAH, 8082, 8081A, 8015D-SHC.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 3050B, 6020A, 7471A, 9045C, 9060, SM 2540G, ASTM D422-63. Organic Parameters: EPA 3580A, 3570, 3540C, 5035A, 8260B, 8270C, 8270-ALK-PAH, 8082, 8081A, 8015D-SHC, 8015-DRO.

Air & Emissions (EPA TO-15.)

Analytes Not Accredited by NELAP

Certification is not available by NELAP for the following analytes: **8270C**: Biphenyl. **TO-15**: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 2-Methylnaphthalene, 1-Methylnaphthalene.


CHAIN OF CUSTODY
AIR ANALYSIS
PAGE 1 OF 1
 320 Forbes Blvd, Mansfield, MA 02048
 TEL: 508-822-9300 FAX: 508-822-3283

Client Information
TRC Environmental
Lowell MA 01854
Phone: 978 - 970 - 5600
Fax:
Email: Sbuchenan@trcsolutions.com
 These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments:

Project Information		Report Information	Data Deliverables
Project Name: Kiley Barrel Project Location: Somerville, MA		<input type="checkbox"/> FAX <input checked="" type="checkbox"/> XADEx Criteria Checker <small>(Default based on Regulatory Criteria Indicated)</small>	<input type="checkbox"/> Same as Client Info PO #: 32484
Project # 113338 Project Manager: Scott Buchanan		<input type="checkbox"/> XEMAIL (standard pdf report) <input type="checkbox"/> Additional Deliverables: Report to: (if different than Project Manager)	Regulatory Requirements/Report Limits State/Fed: MCR Program: C.A.M. Criteria
ALPHA Quote #: 113338 Turn-Around Time Standard 10-Day Date Due: 5-6-2011 Time:		ANALYSIS	

ALL COLUMNS BELOW MUST BE FILLED OUT

ALPHA Lab ID (Lab Use Only)	Sample ID	Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	ID	ID - Flow Controller	TO-14A by TO-15	
												TO-15	TO-15 SIM
562-1	252B	4/22/11	0907	1301	-30.40	-4.73	4:4	J36	6L	787	0275	X	
2	9 ALB		0931	1324	-29.12	-4.49	A:4	J36	6L	1524	0174		
3	UPWIND		1023	1413	-63.07	-0.17	AA	J36	6L	937	0442		
4	SALB		1044	1420	-30.18	-3.88	A:4	J36	6L	970	0377		
5	11 ALB		1145	1530	-30.23	-5.21	4:4	J36	6L	0026	1578		
6	56-4		1320	1333	-28.99	-3.98	SV	J36	2.7L	0364	570		
7	56-2		1455	1508	-27.95	-3.96	SV	J36	2.7L	0325	465		
8	56-3		1552	1601	-29.51	-2.38	SV	J36	2.7L	0203	460		
9	56-1		4/24/11	1643	-30.14	-5.17	SV	J36	0.3L	0203	500	X	
													HOLD

***SAMPLE MATRIX CODES**

 AA = Ambient Air (Indoor/Outdoor)
 SV = Soil Vapor/Landfill Gas/SVE
 Other = Please Specify

Relinquished By:

Date/Time:

Received By:

Date/Time:

Container Type:

CS

4/25/11 1645
 James D. Buchanan
 4/25/11 1845
 4/25/11 1845
 4/25/11 1845
 4/25/11 1845

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambient gasses are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

APPENDIX B
CORRESPONDENCES



Wannalancit Mills
650 Suffolk Street
Lowell, MA 01854

978.970.5600 PHONE
978.453.1995 FAX

www.TRCsolutions.com

TRC Reference Number 113338.4750.0000

November 18, 2011

**Mr. Andrew Clark
Massachusetts Department of Environmental Protection
205B Lowell Street
Wilmington, MA 01887**

**Subject: Notice of Distribution of Results of Environmental Sampling
Former Kiley Barrel Site, Somerville, Massachusetts
Release Tracking Number (RTN) 3-2849 (previously RTN 3-28464)**

Dear Mr. Clark,

On behalf of the City of Somerville, TRC Environmental Corporation (TRC) conducted environmental sampling at the properties of 250-256 Somerville Avenue and 5-7, 9, 11, and 13 Allen Street in Somerville, Massachusetts to investigate the extent of a release that occurred at the Former Kiley Barrel Site. Per regulations set forth in the Massachusetts Contingency Plan (MCP) 310 CMR 40.1403(10), TRC provided the results of the soil gas, indoor air, and groundwater sampling as applicable to the property owners within 30 days of receiving the analytical results from the laboratory on October 20, 2011. For convenience, TRC has prepared data summary tables for each property (see enclosed letter reports).

If you have any questions, please feel free to contact me at (978) 656-3518.

Sincerely,

TRC Environmental Corporation

A handwritten signature in black ink, appearing to read "Norman Scott Buchanan". The signature is fluid and cursive, with a large, stylized "N" at the beginning.

**Norman Scott Buchanan
Project Manager**

cc: Steven Azar



Wannalancit Mills
650 Suffolk Street
Lowell, MA 01854

978.970.5600 PHONE
978.453.1995 FAX

www.TRCsolutions.com

TRC Reference Number 113338.4750.0000

November 17, 2011

Chris Bailey
Property Manager
GreenLight Properties
490 Broadway
Somerville, MA 02145

Subject: Results of Environmental Sampling on Your Property
Former Kiley Barrel Site, Somerville, Massachusetts
Release Tracking Number (RTN) 3-2849 (previously RTN 3-28464)

Dear Mr. Bailey,

On behalf of the City of Somerville, TRC Environmental Corporation (TRC) conducted environmental sampling at 250-256 Somerville Avenue in Somerville, Massachusetts to investigate the extent of a release that occurred at the Former Kiley Barrel Site. Per regulations set forth in the Massachusetts Contingency Plan (MCP) 310 CMR 40.1403(10), TRC is providing to you the results of soil gas, indoor air, and groundwater sampling conducted at your property within 30 days of receiving the analytical results from the laboratory on October 20, 2011. For convenience, TRC has prepared summary tables for the sampling activities data (see Tables 1 to 3). The Massachusetts Department of Environmental Protection (MassDEP) Notice form is provided in Attachment A. Copies of the laboratory analytical reports are provided in Attachment B.

An indoor air sample at your property was collected on October 7, 2011 from the basement of 252 Somerville Avenue (sample name: 252 B). Because vapors potentially migrating from the site would travel underground, impacts from the site would affect the basement air quality to a greater extent than the first floor air quality. Indoor air quality at your property can also be affected by off-gassing from building materials and furnishings, indoor use of chemicals (e.g., cleaning products), and storage of power equipment. An outdoor air sample (sample name: UPWIND) was also collected at the same time to determine air quality in the area from outdoor sources (e.g., vehicular traffic) during the sampling. These results are displayed in Table 1.

A soil gas sample (SG-4) was collected from beneath your property at 256 Somerville Avenue on October 7, 2011 to measure the vapors potentially migrating from the site to your property. These results are displayed in Table 2. On the attached summary tables, the indoor air, outdoor air and soil gas sample results are compared to health-based screening criteria established to determine whether further evaluation of the data are indicated.

Groundwater samples were collected at your property on October 5, 2011 from monitoring wells TRC-04 and TRC-05. These results are displayed in Table 3. Vinyl chloride was the only compound detected above the MCP GW-2 groundwater standard.

The compounds detected in indoor air during the October 2011 sampling round were similar to previous rounds and were detected at similar concentrations. TRC conducted a human health risk characterization using data collected in January 2010 and concluded that there was no Imminent Hazard (as defined by the MCP) associated with those sample results. The January 2010 sample data were further evaluated in the Supplemental Phase II Comprehensive Site Assessment (CSA) Report, submitted to the MassDEP in Spring 2010. The risk characterization, completed as part of the Supplemental Phase II CSA Report, concluded that exposure to compounds in indoor air, potentially present as a result of vapors migrating from the Site, was associated with a condition of No Significant Risk (as defined by the MCP). Since there were no significant changes in concentrations of detected compounds in indoor air between previous sampling rounds and the October 2011 sampling round, a condition of No Significant Risk associated with compounds potentially related to the Site still applies at this property.

Consistent with previous soil gas samples collected in September 2009, January 2010, and April 2011, vapors were detected in the soil gas beneath the building. However, none of the compounds were detected at concentrations greater than their soil gas screening criteria. No compounds in indoor air were detected at concentrations greater than their indoor air screening criteria. As previously stated, indoor air quality can be affected by many sources, including storage of dry-cleaned clothing, the use of cleaning products, and the storage of fuel (e.g., gasoline or heating oil).

Submittals related to this release may be viewed at the MassDEP web site as follows:

http://public.dep.state.ma.us/wsc_viewer/main.aspx

To view information related to this release, enter the RTN "3-2849" in the space provided. Previous reports generated for these activities can be viewed by entering the RTN "3-28464" on the MassDEP website. RTN 3-28464 was recently linked to the primary RTN for the Kiley Barrel Site, 3-2849.



250-256 Somerville Avenue
November 17, 2011

TRC RN 113338.4750.0000
Page 3

If you have any questions, please feel free to contact me at (978) 656-3612.

Sincerely,

TRC Environmental Corporation



Dennis G. Tuttle
Licensed Site Professional

Enclosures

- Table 1. Summary of Analytical Results for Indoor Air Samples - October 2011
- Table 2. Summary of Analytical Results for Soil Gas Samples - October 2011
- Table 3. Summary of Analytical Results for Groundwater Samples - October 2011
- Attachment A. MassDEP Notice of Environmental Sampling Form (BWSC 123)
- Attachment B. Laboratory Analytical

cc: Mr. N. Scott Buchanan, TRC
 Mr. Steven Azar, City of Somerville
 Mr. Andrew Clark, MassDEP



Table 1. Summary of Analytical Results for Indoor Air Samples - October 2011
Kiley Barrel - 250-256 Somerville Avenue
Somerville, Massachusetts

Analysis	Analyte	Sample ID:	252 B	UPWIND
		Sample Date:	10/7/2011	10/7/2011
Indoor Air Action Limit*				
TO-15 (ug/m ³)	1,1,1-Trichloroethane	3.0	0.109 U	0.109 U
	1,1,2,2-Tetrachloroethane	0.041	0.137 U	0.137 U
	1,1,2-Trichloroethane	0.15	0.109 U	0.109 U
	1,1-Dichloroethane	0.8	0.081 U	0.081 U
	1,1-Dichloroethene	0.8	0.079 U	0.079 U
	1,2,4-Trichlorobenzene	3.4	0.371 U	0.371 U
	1,2-Dibromoethane	0.011	0.154 U	0.154 U
	1,2-Dichlorobenzene	0.72	0.120 U	0.120 U
	1,2-Dichloroethane	0.090	0.081 U	0.081 U
	1,2-Dichloropropane	0.13	0.092 U	0.092 U
	1,3-Dichlorobenzene	0.60	0.120 U	0.120 U
	1,4-Dichlorobenzene	0.5	0.120 U	0.120 U
	1,4-Dioxane	0.59	0.360 U	0.360 U
	Acetone	91	11.8	6.60
	Benzene	2.3	0.486	0.441
	Bromodichloromethane	0.14	0.134 U	0.134 U
	Bromoform	2.2	0.207 U	0.207 U
	Bromomethane	0.60	0.078 U	0.078 U
	Carbon tetrachloride	0.54	0.428	0.421
	Chlorobenzene	2.3	0.092 U	0.092 U
	Chloroform	1.9	0.693	0.098 U
	cis-1,2-Dichloroethene	0.8	0.079 U	0.079 U
	cis-1,3-Dichloropropene	0.60	0.091 U	0.091 U
	Dibromochloromethane	0.10	0.170 U	0.170 U
	Ethylbenzene	7.4	0.395	0.304
	Hexachlorobutadiene	0.11	0.533 U	0.533 U
	2-Butanone	12	0.826	0.590 U
	4-Methyl-2-pentanone	2.2	0.820 U	0.820 U
	Methylene chloride	5.0	4.86 U	4.86 U
	Methyl tert butyl ether	39	0.072 U	0.072 U
	Naphthalene	0.61	0.262 U	0.262 U
	p/m-Xylene	20	1.17	0.869
	o-Xylene	20	0.426	0.317
	Styrene	1.4	0.174	0.085 U
	Tetrachloroethene	1.4	0.400	0.373
	Toluene	54	3.32	4.03
	trans-1,2-Dichloroethene	0.80	0.079 U	0.079 U
	trans-1,3-Dichloropropene	0.60	0.091 U	0.091 U
	Trichloroethene	0.80	0.107 U	0.107 U
	Vinyl chloride	0.27	0.051 U	0.051 U
	1,2,4-Trimethylbenzene	10 ⁽²⁾	NA	NA
	Benzyl chloride	NS	NA	NA
	1,3-Butadiene	NS	NA	NA
	Vinyl acetate	NS	NA	NA
	Tetrahydrofuran	NS	NA	NA
	n-Hexane	58 ⁽¹⁾	NA	NA
	Cyclohexane	58 ⁽¹⁾	NA	NA
	Propylene	NS	NA	NA
	Xylenes (total)	20	NA	NA
	Ethyl Acetate	NS	NA	NA
	Heptane	58 ⁽¹⁾	NA	NA
	2-Hexanone	NS	NA	NA
	4-Ethyltoluene	10 ⁽²⁾	NA	NA
	Ethanol	NS	NA	NA
	Isopropanol	NS	NA	NA
	Chloromethane	NS	NA	NA
	Chloroethane	NS	NA	NA
	Carbon disulfide	NS	NA	NA

Table 1. Summary of Analytical Results for Indoor Air Samples - October 2011
Kiley Barrel - 250-256 Somerville Avenue
Somerville, Massachusetts

Analysis	Analyte	Sample ID:	252 B	UPWIND	
		Sample Date:	10/7/2011	10/7/2011	
		Indoor Air Action Limit*			
	Trichlorofluoromethane	NS	NA	NA	
	Dichlorodifluoromethane	NS	NA	NA	
	Freon-113	NS	NA	NA	
	Freon-114	NS	NA	NA	
APH (ug/m³)	1,3-Butadiene	NS	2.00 U	2.00 U	
	Methyl tert butyl ether	39	2.00 U	2.00 U	
	Benzene	2.3	2.00 U	2.00 U	
	Toluene	54	3.10	3.90	
	C5-C8 Aliphatics	58	12.0 U	12.0 U	
	Ethylbenzene	7.4	2.00 U	2.00 U	
	p/m-Xylene	20	4.00 U	4.00 U	
	o-Xylene	20	2.00 U	2.00 U	
	Naphthalene	0.61	2.00 U	2.00 U	
	C9-C12 Aliphatics	68	14.0 U	14.0 U	
	C9-C10 Aromatics**	10	10.0 U	10.0 U	

Notes:

ug/m³ - micrograms per cubic meters.

J - Estimated value; detected below quantitation limit.

NA - Sample not analyzed for the listed analyte.

NS - No MassDEP standards exist for this compound.

U - Compound was not detected at specified quantitation limit.

Values in **Bold** indicate the compound was detected.

Values shown in **Bold** and shaded type exceed the listed criteria.

APII - Air-Phase Petroleum Hydrocarbons.

TO - Toxic organics.

* - MassDEP, Indoor Air Residential Threshold Values (IATV), Vapor Intrusion Guidance

** - C9-C10 Aromatics (Total) for samples collected on 10/7/2011.

- Interim Draft, December 2010.

(1) - IATV for C5-C8 aliphatics used.

(2) - IATV for C9-C10 aromatics used.

Table 2. Summary of Analytical Results for Soil Gas Samples - October 2011
Kiley Barrel - 250-256 Somerville Avenue
Somerville, Massachusetts

Analysis	Analyte	Sample ID:	SG-4	
		Sample Location:	256 Somerville	
		Sample Date:	10/7/2011	
		Screening Values*		
TO-15 (ug/m3)	1,1,1-Trichloroethane	150	0.273	U
	1,1,2,2-Tetrachloroethane	2.05	0.343	U
	1,1,2-Trichloroethane	7.5	0.273	U
	1,1-Dichloroethane	40	0.202	U
	1,1-Dichloroethene	40	0.198	U
	1,2,4-Trichlorobenzene	170	0.928	U
	1,2-Dibromoethane	0.55	0.384	U
	1,2-Dichlorobenzene	36	0.301	U
	1,2-Dichloroethane	4.5	0.202	U
	1,2-Dichloropropane	6.5	0.231	U
	1,3-Dichlorobenzene	30	0.301	U
	1,4-Dichlorobenzene	25	0.301	U
	1,4-Dioxane	29.5	0.901	U
	Acetone	4,550	717	
	Benzene	115	22.9	
	Bromodichloromethane	7	0.335	U
	Bromoform	110	0.517	U
	Bromomethane	30	0.194	U
	Carbon tetrachloride	27	0.314	U
	Chlorobenzene	115	0.391	
	Chloroform	95	0.732	
	cis-1,2-Dichloroethene	40	0.198	U
	cis-1,3-Dichloropropene	30	0.227	U
	Dibromochloromethane	5	0.426	U
	Ethylbenzene	370	0.239	
	Hexachlorobutadiene	5.5	1.33	U
	2-Butanone	600	33.3	
	4-Methyl-2-pentanone	110	2.05	U
	Methylene chloride	250	12.2	U
	Methyl tert butyl ether	1,950	0.180	U
	Naphthalene	30.5	0.655	U
	p/m-Xylene	1,000	0.586	
	o-Xylene	1,000	0.217	U
	Styrene	70	0.213	U
	Tetrachloroethene	70	31.9	
	Toluene	2,700	1.38	
	trans-1,2-Dichloroethene	40	0.198	U
	trans-1,3-Dichloropropene	30	0.227	U
	Trichloroethene	40	0.269	U
	Vinyl chloride	13.5	0.128	U
	1,2,4-Trimethylbenzene	500 ⁽²⁾	NA	
	Benzyl chloride	NS	NA	
	1,3-Butadiene	NS	NA	
	Vinyl acetate	NS	NA	

Table 2. Summary of Analytical Results for Soil Gas Samples - October 2011
Kiley Barrel - 250-256 Somerville Avenue
Somerville, Massachusetts

Analysis	Analyte	Sample ID:	SG-4
		Sample Location:	256 Somerville
		Sample Date:	10/7/2011
		Screening Values*	
	1,3,5-Trimethylbenzene	500 ⁽²⁾	NA
	Tetrahydrofuran	NS	NA
	n-Hexane	2,900 ⁽¹⁾	NA
	Cyclohexane	2,900 ⁽¹⁾	NA
	Propylene	NS	NA
	Xylenes (total)	1,000	NA
	Ethyl Acetate	NS	NA
	Heptane	2,900 ⁽¹⁾	NA
	2-Hexanone	NS	NA
	4-Ethyltoluene	500 ⁽²⁾	NA
	Ethanol	NS	NA
	Isopropanol	NS	NA
	Chloromethane	NS	NA
	Chloroethane	NS	NA
	Carbon disulfide	NS	NA
	Trichlorofluoromethane	NS	NA
	Dichlorodifluoromethane	NS	NA
	Freon-113	NS	NA
	Freon-114	NS	NA
APH (ug/m ³)	1,3-Butadiene	NS	5.00 U
	Methyl tert butyl ether	1950	5.00 U
	Benzene	115	23.0
	Toluene	2,700	5.00 U
	C5-C8 Aliphatics	2,900	270
	Ethylbenzene	370	5.00 U
	p/m-Xylene	1,000	10.0 U
	o-Xylene	1,000	5.00 U
	Naphthalene	30.5	5.00 U
	C9-C12 Aliphatics	3,400	260
	C9-C10 Aromatics	500	25.0 U

Notes:

ug/m³ - micrograms per cubic meters.

J - Estimated value; detected below quantitation limit.

NA - Sample not analyzed for the listed analyte.

NS - No MassDEP standards exist for this compound.

U - Compound was not detected at specified quantitation limit.

Values in **Bold** indicate the compound was detected.

APH - Air-Phase Petroleum Hydrocarbons.

TO - Toxic organics.

* - Soil Gas Screening Values are based on 50x the MassDEP Indoor Air Residential Threshold Values from Vapor Intrusion Guidance - Interim Draft, December 2010, which represents a conservative soil gas to indoor air dilution attenuation factor.

(1) - IATV for C5-C8 aliphatics used.

(2) - IATV for C9-C10 aromatics used.

Table 3. Summary of Analytical Results for Groundwater Samples - October 2011
Kiley Barrel - 250-256 Somerville Avenue
Somerville, Massachusetts

Analysis	Analytic	Sample ID:		TRC-04	TRC-05
		Sample Date: GW-2	Sample Date: GW-3	10/5/2011	10/5/2011
VOCs (ug/L)					
Acetone	50,000	50,000	10 U	10 U	
tert-Amylmethyl Ether	NS	NS	0.50 U	0.50 U	
Benzene	2,000	10,000	1.0 U	7.2	
Bromobenzene	NS	NS	1.0 U	1.0 U	
Bromoform	6	50,000	5.0 U	5.0 U	
Bromomethane	7	800	2.0 U	2.0 U	
2-Butanone (MEK)	50000	50000	10 U	10 U	
n-Butylbenzene	7,000 ⁽¹⁾	50,000 ⁽¹⁾	1.0 U	1.0 U	
sec-Butylbenzene	7,000 ⁽¹⁾	50,000 ⁽¹⁾	1.0 U	1.0 U	
tert-Butylbenzene	7,000 ⁽¹⁾	50,000 ⁽¹⁾	1.0 U	1.0 U	
Carbon Disulfide	NS	NS	0.50 U	0.50 U	
Carbon Tetrachloride	2	5,000	5.0 U	5.0 U	
Chlorobenzene	200	1,000	8.1	11	
Chlorodibromomethane	20	50,000	5.0 U	5.0 U	
Chloroethane	NS	NS	2.0 U	2.0 U	
Chloroform	50	20,000	2.0 U	2.0 U	
Chloromethane	NS	NS	2.0 U	2.0 U	
2-Chlorotoluene	NS	NS	1.0 U	1.0 U	
4-Chlorotoluene	NS	NS	1.0 U	1.0 U	
1,2-Dibromo-3-Chloropropane	NS	NS	5.0 U	5.0 U	
1,2-Dibromoethane	2	50,000	0.50 U	0.50 U	
Dibromomethane	NS	NS	1.0 U	1.0 U	
1,2-Dichlorobenzene	2,000	2,000	1.0 U	1.0 U	
1,3-Dichlorobenzene	2,000	50,000	1.0 U	1.0 U	
1,4-Dichlorobenzene	200	8,000	1.0 U	1.0 U	
Dichlorodifluoromethane	NS	NS	2.0 U	2.0 U	
1,1-Dichloroethane	1,000	20,000	2.2	1.9	
1,2-Dichloroethane	5	20,000	1.0 U	1.0 U	
1,1-Dichloroethylene	80	30,000	1.0 U	1.0 U	
cis-1,2-Dichloroethylene	100	50,000	8.6	13	
trans-1,2-Dichloroethylene	90	50,000	1.0 U	1.0 U	
1,2-Dichloropropane	3	50,000	1.0 U	1.0 U	
1,3-Dichloropropane	NS	NS	0.50 U	0.50 U	
2,2-Dichloropropane	NS	NS	1.0 U	1.0 U	
1,1-Dichloropropene	NS	NS	2.0 U	2.0 U	
cis-1,3-Dichloropropene	10 ⁽²⁾	200 ⁽²⁾	5.0 U	5.0 U	
trans-1,3-Dichloropropene	10 ⁽²⁾	200 ⁽²⁾	5.0 U	5.0 U	
Diethyl Ether	NS	NS	2.0 U	2.0 U	
Diisopropyl Ether	NS	NS	0.50 U	0.50 U	
1,4-Dioxane	6,000	50,000	50 U	50 U	
Ethylbenzene	20,000	5,000	1.0 U	1.0 U	
Hexachlorobutadiene	1	3,000	0.50 U	0.50 U	
2-Hexanone	NS	NS	10 U	10 U	
Isopropylbenzene	7,000 ⁽¹⁾	50,000 ⁽¹⁾	1.0 U	1.0 U	
p-Isopropyltoluene	7,000 ⁽¹⁾	50,000 ⁽¹⁾	1.0 U	1.0 U	
MTBE	50,000	50,000	1.0 U	1.0 U	
Methylene Chloride	10,000	50,000	5.0 U	5.0 U	
MBK	50,000	50,000	10 U	10 U	
Naphthalene	1,000	20,000	2.0 U	2.0 U	
n-Propylbenzene	7,000 ⁽¹⁾	50,000 ⁽¹⁾	1.0 U	1.0 U	
Styrene	100	6,000	1.0 U	1.0 U	
1,1,1,2-Tetrachloroethane	10	50,000	5.0 U	5.0 U	
1,1,2,2-Tetrachloroethane	9	50,000	5.0 U	5.0 U	
Tetrachloroethylene	50	30,000	1.0	1.0 U	
PCBs (ug/L)					
Tetrahydrofuran	NS	NS	2.0 U	2.0 U	
Toluene	50,000	40,000	1.0 U	1.0 U	
1,2,3-Trichlorobenzene	NS	NS	2.0 U	2.0 U	
1,2,4-Trichlorobenzene	2,000	50,000	1.0 U	1.0 U	
1,1,1-Trichloroethane	4,000	20,000	1.0 U	1.0 U	
1,1,2-Trichloroethane	900	50,000	1.0 U	1.0 U	
Trichloroethylene	30	5,000	1.0	1.0 U	
Trichlorofluoromethane	NS	NS	2.0 U	2.0 U	
1,2,3-Trichloropropene	NS	NS	2.0 U	2.0 U	
1,2,4-Trimethylbenzene	7,000 ⁽²⁾	50,000 ⁽²⁾	1.0 U	1.0 U	
1,3,5-Trimethylbenzene	7,000 ⁽²⁾	50,000 ⁽²⁾	1.0 U	1.0 U	
Vinyl Chloride	2	50,000	2.1	6.0	
m,p-Xylene	9,000	5,000	2.0 U	2.0 U	
o-Xylene	9,000	5,000	1.0 U	1.0 U	
Xylenes	9,000	5,000	2.0 U	2.0 U	
Total PCBs	5	10	0.20 U	0.20 U	
Carbon (ug/L)		Total Organic Carbon	NS	NS	4,900
					4,800

Notes:

ug L - micrograms per liter

J - Estimated value.

NS - No MassDEP standards exist for this compound.

U - Compound was not detected at specified quantitation limit.

Values shown in bold and shaded represent detection limits of the listed Method(s):

Method 1 standard.

VOCs - Volatile Organic Compounds.

PCBs - Polychlorinated Biphenyls.

(1) - MassDEP Method 1 standards for C9-C10 aromatic hydrocarbons used.

(2) - MassDEP Method 1 for 1,3-Dichloropropene used.

ATTACHMENT A

**MASSDEP NOTICE OF
ENVIRONMENTAL SAMPLING FORM
(BWSC 123)**



NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

BWSC 123

This Notice is Related to
Release Tracking Number

3 2849

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: 20-22 Prospect Street (Former Kiley Barrel Site)

City/Town: Somerville Zip Code: 02143

B. This notice is being provided to the following party:

1. Name: Chris Bailey

2. Street Address: 490 Broadway

City/Town: Somerville Zip Code: 02145

C. This notice is being given to inform its recipient (the party listed in Section B):

- 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
- 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
- 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 250-256 Somerville Avenue

City/Town: Somerville Zip Code: 02143

2. MCP phase of work during which the sampling will be/has been conducted:

- | | |
|--|---|
| <input checked="" type="checkbox"/> Immediate Response Action | <input type="checkbox"/> Phase III Feasibility Evaluation |
| <input type="checkbox"/> Release Abatement Measure | <input type="checkbox"/> Phase IV Remedy Implementation Plan |
| <input type="checkbox"/> Utility-related Abatement Measure | <input type="checkbox"/> Phase V/Remedy Operation Status |
| <input type="checkbox"/> Phase I Initial Site Investigation | <input type="checkbox"/> Post-Class C Operation, Maintenance and Monitoring |
| <input checked="" type="checkbox"/> Phase II Comprehensive Site Assessment | <input type="checkbox"/> Other _____
(specify) |

3. Description of property where sampling will be/has been conducted:

residential commerical industrial school/playground Other _____
(specify)

4. Description of the sampling locations and types (e.g., soil, groundwater) to the extent known at the time of this notice.

-TRC conducted one round of soil gas sampling from the monitor point installed in the basement of 256 Somerville Ave. The soil gas sample was analyzed for volatile organic compounds (VOCs); -TRC also conducted one round of indoor air sampling from the basement of 252 Somerville Ave. An additional air sample was collected from an outdoor upwind location. Air samples were analyzed for VOCs.
-TRC conducted one round of groundwater sampling from the monitoring wells, TRC-04 and TRC-05. The groundwater sample was analyzed for VOCs, polychlorinated biphenyls (PCBs), and total organic carbon(TOC).

E. Contact information related to the party providing this notice:

Contact Name: Steven Azar, City of Somerville Senior Planner

Street Address: 93 Highland Avenue

City/Town: Somerville, MA Zip Code: 02143

Telephone: (617) 625-6600 Email: SAzar@somervillema.gov

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation under the Massachusetts Contingency Plan at a property on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/dep/cleanup/oview.htm>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://mass.gov/dep/about/region/schedule.htm> if you would like to make an appointment to see these files. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

ATTACHMENT B

**LABORATORY ANALYTICAL
REPORTS**

Project Name: KILEY BARREL

Lab Number: L1116329

Project Number: 113338

Report Date: 10/21/11

SAMPLE RESULTS

Lab ID:	L1116329-04	Date Collected:	10/07/11 15:18
Client ID:	252B	Date Received:	10/07/11
Sample Location:	SOMERVILLE, MA	Field Prep:	Not Specified
Matrix:	Air		
Anaytical Method:	101,TO15-SIM		
Analytical Date:	10/13/11 21:08		
Analyst:	RY		

Parameter	ppbV			ug/m3			Dilution Factor
	Results	RL	MDL	Results	RL	MDL	
MCP Volatile Organics in Air by SIM - Mansfield Lab							
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--	1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--	1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--	1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--	1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--	1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--	1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--	1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--	1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--	1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--	1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--	1
1,4-Dioxane	ND	0.100	--	ND	0.360	--	1
Acetone	4.97	1.00	--	11.8	2.38	--	1
Benzene	0.152	0.100	--	0.486	0.319	--	1
Bromodichloromethane	ND	0.020	--	ND	0.134	--	1
Bromoform	ND	0.020	--	ND	0.207	--	1
Bromomethane	ND	0.020	--	ND	0.078	--	1
Carbon tetrachloride	0.068	0.020	--	0.428	0.126	--	1
Chlorobenzene	ND	0.020	--	ND	0.092	--	1
Chloroform	0.142	0.020	--	0.693	0.098	--	1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--	1
Dibromochloromethane	ND	0.020	--	ND	0.170	--	1



Project Name: KILEY BARREL

Lab Number: L1116329

Project Number: 113338

Report Date: 10/21/11

SAMPLE RESULTS

Lab ID:	L1116329-04	Date Collected:	10/07/11 15:18
Client ID:	252B	Date Received:	10/07/11
Sample Location:	SOMERVILLE, MA	Field Prep:	Not Specified

Parameter	ppbV			ug/m3			Dilution Factor
	Results	RL	MDL	Results	RL	MDL	
MCP Volatile Organics in Air by SIM - Mansfield Lab							
Ethylbenzene	0.091	0.020	—	0.395	0.087	--	1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--	1
2-Butanone	0.280	0.200	--	0.826	0.590	--	1
4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--	1
Methylene chloride	ND	1.40	--	ND	4.86	--	1
Methyl tert butyl ether	ND	0.020	--	ND	0.072	--	1
Naphthalene	ND	0.050	--	ND	0.262	--	1
p/m-Xylene	0.270	0.040	--	1.17	0.174	--	1
o-Xylene	0.098	0.020	--	0.426	0.087	--	1
Styrene	0.041	0.020	--	0.174	0.085	--	1
Tetrachloroethene	0.059	0.020	--	0.400	0.136	--	1
Toluene	0.880	0.050	--	3.32	0.188	--	1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--	1
Trichloroethene	ND	0.020	--	ND	0.107	--	1
Vinyl chloride	ND	0.020	--	ND	0.051	--	1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	111		60-140
bromochloromethane	101		60-140
chlorobenzene-d5	104		60-140



Project Name: KILEY BARREL
Project Number: 113338

Lab Number: L1116329
Report Date: 10/21/11

SAMPLE RESULTS

Lab ID:	L1116329-04	Date Collected:	10/07/11 15:18
Client ID:	252B	Date Received:	10/07/11
Sample Location:	SOMERVILLE, MA	Field Prep:	Not Specified
Matrix:	Air		
Analytical Method:	96,APH		
Analytical Date:	10/13/11 21:08		
Analyst:	RY		

Quality Control Information

Sample Type:	4 Hour Composite
Sample Container Type:	Canister - 6 Liter
Sampling Flow Controller:	Mechanical
Sampling Zone:	Unknown
Sampling Flow Meter RPD of pre & post-sampling calibration check:	<=20%
Were all QA/QC procedures REQUIRED by the method followed?	Yes
Were all performance/acceptance standards for the required procedures achieved?	Yes
Were significant modifications made to the method as specified in Sect 11.1.2?	No

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbons in Air - Mansfield Lab						
1,3-Butadiene	ND		ug/m3	2.0	--	1
Methyl tert butyl ether	ND		ug/m3	2.0	--	1
Benzene	ND		ug/m3	2.0	--	1
Toluene	3.1		ug/m3	2.0	--	1
C5-C8 Aliphatics, Adjusted	ND		ug/m3	12	--	1
Ethylbenzene	ND		ug/m3	2.0	--	1
p/m-Xylene	ND		ug/m3	4.0	--	1
o-Xylene	ND		ug/m3	2.0	--	1
Naphthalene	ND		ug/m3	2.0	--	1
C9-C12 Aliphatics, Adjusted	ND		ug/m3	14	--	1
C9-C10 Aromatics Total	ND		ug/m3	10	--	1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	108		50-200
Bromochloromethane	109		50-200
Chlorobenzene-d5	101		50-200

Project Name: KILEY BARREL

Lab Number: L1116329

Project Number: 113338

Report Date: 10/21/11

SAMPLE RESULTS

Lab ID: L1116329-07 D Date Collected: 10/07/11 16:00
 Client ID: SG-4 Date Received: 10/07/11
 Sample Location: SOMERVILLE, MA Field Prep: Not Specified
 Matrix: Soil_Vapor
 Anaytical Method: 101,TO15-SIM
 Analytical Date: 10/13/11 23:26
 Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
MCP Volatile Organics in Air by SIM - Mansfield Lab								
1,1,1-Trichloroethane	ND	0.050	--	ND	0.273	--		2.5
1,1,2,2-Tetrachloroethane	ND	0.050	--	ND	0.343	--		2.5
1,1,2-Trichloroethane	ND	0.050	--	ND	0.273	--		2.5
1,1-Dichloroethane	ND	0.050	--	ND	0.202	--		2.5
1,1-Dichloroethene	ND	0.050	--	ND	0.198	--		2.5
1,2,4-Trichlorobenzene	ND	0.125	--	ND	0.928	--		2.5
1,2-Dibromoethane	ND	0.050	--	ND	0.384	--		2.5
1,2-Dichlorobenzene	ND	0.050	--	ND	0.301	--		2.5
1,2-Dichloroethane	ND	0.050	--	ND	0.202	--		2.5
1,2-Dichloropropane	ND	0.050	--	ND	0.231	--		2.5
1,3-Dichlorobenzene	ND	0.050	--	ND	0.301	--		2.5
1,4-Dichlorobenzene	ND	0.050	--	ND	0.301	--		2.5
1,4-Dioxane	ND	0.250	--	ND	0.901	--		2.5
Acetone	385	2.50	--	914	5.94	--	E	2.5
Benzene	7.18	0.250	--	22.9	0.799	--		2.5
Bromodichloromethane	ND	0.050	--	ND	0.335	--		2.5
Bromoform	ND	0.050	--	ND	0.517	--		2.5
Bromomethane	ND	0.050	--	ND	0.194	--		2.5
Carbon tetrachloride	ND	0.050	--	ND	0.314	--		2.5
Chlorobenzene	0.085	0.050	--	0.391	0.230	--		2.5
Chloroform	0.150	0.050	--	0.732	0.244	--		2.5
cis-1,2-Dichloroethene	ND	0.050	--	ND	0.198	--		2.5
cis-1,3-Dichloropropene	ND	0.050	--	ND	0.227	--		2.5
Dibromochloromethane	ND	0.050	--	ND	0.426	--		2.5



Project Name: KILEY BARREL

Lab Number: L1116329

Project Number: 113338

Report Date: 10/21/11

SAMPLE RESULTS

Lab ID:	L1116329-07	D	Date Collected:	10/07/11 16:00
Client ID:	SG-4		Date Received:	10/07/11
Sample Location:	SOMERVILLE, MA		Field Prep:	Not Specified

Parameter	ppbV			ug/m3			Dilution Factor
	Results	RL	MDL	Results	RL	MDL	Qualifier
MCP Volatile Organics in Air by SIM - Mansfield Lab							
Ethylbenzene	0.055	0.050	--	0.239	0.217	--	2.5
Hexachlorobutadiene	ND	0.125	--	ND	1.33	--	2.5
2-Butanone	11.3	0.500	--	33.3	1.47	--	2.5
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	2.5
Methylene chloride	ND	3.50	--	ND	12.2	--	2.5
Methyl tert butyl ether	ND	0.050	--	ND	0.180	--	2.5
Naphthalene	ND	0.125	--	ND	0.655	--	2.5
p/m-Xylene	0.135	0.100	--	0.586	0.434	--	2.5
o-Xylene	ND	0.050	--	ND	0.217	--	2.5
Styrene	ND	0.050	--	ND	0.213	--	2.5
Tetrachloroethene	4.70	0.050	--	31.9	0.339	--	2.5
Toluene	0.365	0.125	--	1.38	0.471	--	2.5
trans-1,2-Dichloroethene	ND	0.050	--	ND	0.198	--	2.5
trans-1,3-Dichloropropene	ND	0.050	--	ND	0.227	--	2.5
Trichloroethene	ND	0.050	--	ND	0.269	--	2.5
Vinyl chloride	ND	0.050	--	ND	0.128	--	2.5

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	98		60-140
bromochloromethane	94		60-140
chlorobenzene-d5	91		60-140

Serial_No:10211107:58

Project Name: KILEY BARREL

Lab Number: L1116329

Project Number: 113338

Report Date: 10/21/11

SAMPLE RESULTS

Lab ID:	L1116329-07	D	Date Collected:	10/07/11 16:00
Client ID:	SG-4		Date Received:	10/07/11
Sample Location:	SOMERVILLE, MA		Field Prep:	Not Specified
Matrix:	Soil_Vapor			
Analytical Method:	96,APH			
Analytical Date:	10/13/11 23:26			
Analyst:	RY			

Quality Control Information

Sample Type:	200 ml/minute Composite
Sample Container Type:	Canister - 2.7 Liter
Sampling Flow Controller:	Mechanical
Sampling Zone:	Unknown
Sampling Flow Meter RPD of pre & post-sampling calibration check:	<=20%
Were all QA/QC procedures REQUIRED by the method followed?	Yes
Were all performance/acceptance standards for the required procedures achieved?	Yes
Were significant modifications made to the method as specified in Sect 11.1.2?	No

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbons in Air - Mansfield Lab						
1,3-Butadiene	ND		ug/m3	5.0	--	2.5
Methyl tert butyl ether	ND		ug/m3	5.0	--	2.5
Benzene	23		ug/m3	5.0	--	2.5
Toluene	ND		ug/m3	5.0	--	2.5
C5-C8 Aliphatics, Adjusted	270		ug/m3	30	--	2.5
Ethylbenzene	ND		ug/m3	5.0	--	2.5
p/m-Xylene	ND		ug/m3	10	--	2.5
o-Xylene	ND		ug/m3	5.0	--	2.5
Naphthalene	ND		ug/m3	5.0	--	2.5
C9-C12 Aliphatics, Adjusted	260		ug/m3	35	--	2.5
C9-C10 Aromatics Total	ND		ug/m3	25	--	2.5

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	95		50-200
Bromochloromethane	102		50-200
Chlorobenzene-d5	90		50-200

Project Name: KILEY BARREL

Lab Number: L1116329

Project Number: 113338

Report Date: 10/21/11

SAMPLE RESULTS

Lab ID: L1116329-01 Date Collected: 10/07/11 12:58
 Client ID: UPWIND Date Received: 10/07/11
 Sample Location: SOMERVILLE, MA Field Prep: Not Specified
 Matrix: Air
 Analytical Method: 101,TO15-SIM
 Analytical Date: 10/13/11 19:24
 Analyst: RY

Parameter	ppbV			ug/m3			Dilution Factor
	Results	RL	MDL	Results	RL	MDL	
MCP Volatile Organics in Air by SIM - Mansfield Lab							
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--	1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--	1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--	1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--	1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--	1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--	1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--	1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--	1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--	1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--	1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--	1
1,4-Dioxane	ND	0.100	--	ND	0.360	--	1
Acetone	2.78	1.00	--	6.60	2.38	--	1
Benzene	0.138	0.100	--	0.441	0.319	--	1
Bromodichloromethane	ND	0.020	--	ND	0.134	--	1
Bromoform	ND	0.020	--	ND	0.207	--	1
Bromomethane	ND	0.020	--	ND	0.078	--	1
Carbon tetrachloride	0.067	0.020	--	0.421	0.126	--	1
Chlorobenzene	ND	0.020	--	ND	0.092	--	1
Chloroform	ND	0.020	--	ND	0.098	--	1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--	1
Dibromochloromethane	ND	0.020	--	ND	0.170	--	1



Project Name: KILEY BARREL
Project Number: 113338

Serial_No:10211107:58
Lab Number: L1116329
Report Date: 10/21/11

SAMPLE RESULTS

Lab ID: L1116329-01 Date Collected: 10/07/11 12:58
Client ID: UPWIND Date Received: 10/07/11
Sample Location: SOMERVILLE, MA Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
MCP Volatile Organics in Air by SIM - Mansfield Lab								
Ethylbenzene	0.070	0.020	--	0.304	0.087	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1
2-Butanone	ND	0.200	--	ND	0.590	--		1
4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--		1
Methylene chloride	ND	1.40	--	ND	4.86	--		1
Methyl tert butyl ether	ND	0.020	--	ND	0.072	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
p/m-Xylene	0.200	0.040	--	0.869	0.174	--		1
o-Xylene	0.073	0.020	--	0.317	0.087	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
Tetrachloroethene	0.055	0.020	--	0.373	0.136	--		1
Toluene	1.07	0.050	--	4.03	0.188	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	105		60-140
bromochloromethane	103		60-140
chlorobenzene-d5	102		60-140

Project Name: KILEY BARREL
Project Number: 113338

Lab Number: L1116329
Report Date: 10/21/11

SAMPLE RESULTS

Lab ID:	L1116329-01	Date Collected:	10/07/11 12:58
Client ID:	UPWIND	Date Received:	10/07/11
Sample Location:	SOMERVILLE, MA	Field Prep:	Not Specified
Matrix:	Air		
Analytical Method:	96,APH		
Analytical Date:	10/13/11 19:24		
Analyst:	RY		

Quality Control Information

Sample Type:	4 Hour Composite
Sample Container Type:	Canister - 6 Liter
Sampling Flow Controller:	Mechanical
Sampling Zone:	Unknown
Sampling Flow Meter RPD of pre & post-sampling calibration check:	<=20%
Were all QA/QC procedures REQUIRED by the method followed?	Yes
Were all performance/acceptance standards for the required procedures achieved?	Yes
Were significant modifications made to the method as specified in Sect 11.1.2?	No

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbons in Air - Mansfield Lab						
1,3-Butadiene	ND		ug/m3	2.0	--	1
Methyl tert butyl ether	ND		ug/m3	2.0	--	1
Benzene	ND		ug/m3	2.0	--	1
Toluene	3.9		ug/m3	2.0	--	1
C5-C8 Aliphatics, Adjusted	ND		ug/m3	12	--	1
Ethylbenzene	ND		ug/m3	2.0	--	1
p/m-Xylene	ND		ug/m3	4.0	--	1
o-Xylene	ND		ug/m3	2.0	--	1
Naphthalene	ND		ug/m3	2.0	--	1
C9-C12 Aliphatics, Adjusted	ND		ug/m3	14	--	1
C9-C10 Aromatics Total	ND		ug/m3	10	--	1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	102		50-200
Bromochloromethane	103		50-200
Chlorobenzene-d5	99		50-200

Project Name: KILEY BARREL

Lab Number: L1116329

Project Number: 113338

Report Date: 10/21/11

SAMPLE RESULTS

Lab ID:	L1116329-01	Date Collected:	10/07/11 12:58
Client ID:	UPWIND	Date Received:	10/07/11
Sample Location:	SOMERVILLE, MA	Field Prep:	Not Specified
Matrix:	Air		
Anaytical Method:	101,TO15-SIM		
Analytical Date:	10/13/11 19:24		
Analyst:	RY		

Parameter	Results	ppbV		ug/m3		Qualifier	Dilution Factor
		RL	MDL	RL	MDL		
MCP Volatile Organics in Air by SIM - Mansfield Lab							
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--	1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--	1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--	1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--	1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--	1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--	1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--	1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--	1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--	1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--	1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--	1
1,4-Dioxane	ND	0.100	--	ND	0.360	--	1
Acetone	2.78	1.00	--	6.60	2.38	--	1
Benzene	0.138	0.100	--	0.441	0.319	--	1
Bromodichloromethane	ND	0.020	--	ND	0.134	--	1
Bromoform	ND	0.020	--	ND	0.207	--	1
Bromomethane	ND	0.020	--	ND	0.078	--	1
Carbon tetrachloride	0.067	0.020	--	0.421	0.126	--	1
Chlorobenzene	ND	0.020	--	ND	0.092	--	1
Chloroform	ND	0.020	--	ND	0.098	--	1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--	1
Dibromochloromethane	ND	0.020	--	ND	0.170	--	1



Project Name: KILEY BARREL

Lab Number: L1116329

Project Number: 113338

Report Date: 10/21/11

SAMPLE RESULTS

Lab ID:	L1116329-01	Date Collected:	10/07/11 12:58
Client ID:	UPWIND	Date Received:	10/07/11
Sample Location:	SOMERVILLE, MA	Field Prep:	Not Specified

Parameter	ppbV			ug/m3			Dilution Factor
	Results	RL	MDL	Results	RL	MDL	
MCP Volatile Organics in Air by SIM - Mansfield Lab							
Ethylbenzene	0.070	0.020	--	0.304	0.087	--	1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--	1
2-Butanone	ND	0.200	--	ND	0.590	--	1
4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--	1
Methylene chloride	ND	1.40	--	ND	4.86	--	1
Methyl tert butyl ether	ND	0.020	--	ND	0.072	--	1
Naphthalene	ND	0.050	--	ND	0.262	--	1
p/m-Xylene	0.200	0.040	--	0.869	0.174	--	1
o-Xylene	0.073	0.020	--	0.317	0.087	--	1
Styrene	ND	0.020	--	ND	0.085	--	1
Tetrachloroethene	0.055	0.020	--	0.373	0.136	--	1
Toluene	1.07	0.050	--	4.03	0.188	--	1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--	1
Trichloroethene	ND	0.020	--	ND	0.107	--	1
Vinyl chloride	ND	0.020	--	ND	0.051	--	1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	105		60-140
bromochloromethane	103		60-140
chlorobenzene-d5	102		60-140

Project Name: KILEY BARREL
Project Number: 113338

Lab Number: L1116329
Report Date: 10/21/11

SAMPLE RESULTS

Lab ID:	L1116329-01	Date Collected:	10/07/11 12:58
Client ID:	UPWIND	Date Received:	10/07/11
Sample Location:	SOMERVILLE, MA	Field Prep:	Not Specified
Matrix:	Air		
Analytical Method:	96,APH		
Analytical Date:	10/13/11 19:24		
Analyst:	RY		

Quality Control Information

Sample Type:	4 Hour Composite
Sample Container Type:	Canister - 6 Liter
Sampling Flow Controller:	Mechanical
Sampling Zone:	Unknown
Sampling Flow Meter RPD of pre & post-sampling calibration check:	<=20%
Were all QA/QC procedures REQUIRED by the method followed?	Yes
Were all performance/acceptance standards for the required procedures achieved?	Yes
Were significant modifications made to the method as specified in Sect 11.1.2?	No

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbons in Air - Mansfield Lab						
1,3-Butadiene	ND		ug/m3	2.0	--	1
Methyl tert butyl ether	ND		ug/m3	2.0	--	1
Benzene	ND		ug/m3	2.0	--	1
Toluene	3.9		ug/m3	2.0	--	1
C5-C8 Aliphatics, Adjusted	ND		ug/m3	12	--	1
Ethylbenzene	ND		ug/m3	2.0	--	1
p/m-Xylene	ND		ug/m3	4.0	--	1
o-Xylene	ND		ug/m3	2.0	--	1
Naphthalene	ND		ug/m3	2.0	--	1
C9-C12 Aliphatics, Adjusted	ND		ug/m3	14	--	1
C9-C10 Aromatics Total	ND		ug/m3	10	--	1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	102		50-200
Bromochloromethane	103		50-200
Chlorobenzene-d5	99		50-200

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Kiley Barrel

Sample Description:

Work Order: 11J0173

Date Received: 10/5/2011

Field Sample #: TRC-4

Sampled: 10/5/2011 10:50

Sample ID: 11J0173-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	µg/L	1	RL-07, V-05, V-16	SW-846 8260C	10/6/11	10/11/11 21:20	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:20	MFF
Benzene	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:20	MFF
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:20	MFF
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:20	MFF
Bromodichloromethane	ND	5.0	µg/L	1	RL-07	SW-846 8260C	10/6/11	10/11/11 21:20	MFF
Bromoform	ND	5.0	µg/L	1	RL-07	SW-846 8260C	10/6/11	10/11/11 21:20	MFF
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:20	MFF
2-Butanone (MEK)	ND	10	µg/L	1	V-05	SW-846 8260C	10/6/11	10/11/11 21:20	MFF
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:20	MFF
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:20	MFF
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:20	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:20	MFF
Carbon Disulfide	ND	10	µg/L	1	RL-07	SW-846 8260C	10/6/11	10/11/11 21:20	MFF
Carbon Tetrachloride	ND	5.0	µg/L	1	RL-07	SW-846 8260C	10/6/11	10/11/11 21:20	MFF
Chlorobenzene	8.1	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:20	MFF
Chlorodibromomethane	ND	5.0	µg/L	1	RL-07	SW-846 8260C	10/6/11	10/11/11 21:20	MFF
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:20	MFF
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:20	MFF
Chloromethane	ND	2.0	µg/L	1	V-05	SW-846 8260C	10/6/11	10/11/11 21:20	MFF
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:20	MFF
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:20	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1	RL-07	SW-846 8260C	10/6/11	10/11/11 21:20	MFF
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:20	MFF
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:20	MFF
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:20	MFF
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:20	MFF
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:20	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:20	MFF
1,1-Dichloroethane	2.2	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:20	MFF
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:20	MFF
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:20	MFF
cis-1,2-Dichloroethylene	8.6	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:20	MFF
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:20	MFF
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:20	MFF
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:20	MFF
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:20	MFF
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:20	MFF
cis-1,3-Dichloropropene	ND	5.0	µg/L	1	RL-07	SW-846 8260C	10/6/11	10/11/11 21:20	MFF
trans-1,3-Dichloropropene	ND	5.0	µg/L	1	RL-07	SW-846 8260C	10/6/11	10/11/11 21:20	MFF
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:20	MFF
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:20	MFF
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:20	MFF

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Kiley Barrel

Sample Description:

Work Order: 11J0173

Date Received: 10/5/2011

Field Sample #: TRC-4

Sampled: 10/5/2011 10:50

Sample ID: 11J0173-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:20	MFF
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:20	MFF
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:20	MFF
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:20	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:20	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:20	MFF
Methylene Chloride	ND	5.0	µg/L	1	RL-07	SW-846 8260C	10/6/11	10/11/11 21:20	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:20	MFF
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:20	MFF
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:20	MFF
Styrene	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:20	MFF
1,1,1,2-Tetrachloroethane	ND	5.0	µg/L	1	RL-07	SW-846 8260C	10/6/11	10/11/11 21:20	MFF
1,1,2,2-Tetrachloroethane	ND	5.0	µg/L	1	RL-07	SW-846 8260C	10/6/11	10/11/11 21:20	MFF
Tetrachloroethylene	1.0	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:20	MFF
Tetrahydrofuran	ND	2.0	µg/L	1	V-05	SW-846 8260C	10/6/11	10/11/11 21:20	MFF
Toluene	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:20	MFF
1,2,3-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:20	MFF
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:20	MFF
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:20	MFF
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:20	MFF
Trichloroethylene	1.0	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:20	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:20	MFF
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:20	MFF
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:20	MFF
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:20	MFF
Vinyl Chloride	2.1	2.0	µg/L	1	L-04	SW-846 8260C	10/6/11	10/11/11 21:20	MFF
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:20	MFF
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:20	MFF

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	86.6	70-130		10/11/11 21:20
Toluene-d8	98.0	70-130		10/11/11 21:20
4-Bromofluorobenzene	98.7	70-130		10/11/11 21:20

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Kiley Barrel

Sample Description:

Work Order: 11J0173

Date Received: 10/5/2011

Field Sample #: TRC-4

Sampled: 10/5/2011 10:50

Sample ID: 11J0173-02

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	10/7/11	10/10/11 15:50	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	10/7/11	10/10/11 15:50	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	10/7/11	10/10/11 15:50	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	10/7/11	10/10/11 15:50	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	10/7/11	10/10/11 15:50	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	10/7/11	10/10/11 15:50	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	10/7/11	10/10/11 15:50	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	10/7/11	10/10/11 15:50	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	10/7/11	10/10/11 15:50	JMB
Surrogates		% Recovery	Recovery Limits	Flag					
Decachlorobiphenyl [1]	83.1	30-150						10/10/11 15:50	
Decachlorobiphenyl [2]	82.5	30-150						10/10/11 15:50	
Tetrachloro-m-xylene [1]	94.4	30-150						10/10/11 15:50	
Tetrachloro-m-xylene [2]	91.0	30-150						10/10/11 15:50	



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Kiley Barrel

Sample Description:

Work Order: 11J0173

Date Received: 10/5/2011

Field Sample #: TRC-4

Sampled: 10/5/2011 10:50

Sample ID: 11J0173-02

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Organic Carbon	4.9	1.0	mg/L	1		SM 5310B	10/6/11	10/6/11 9:00	LL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Kiley Barrel

Sample Description:

Work Order: 11J0173

Date Received: 10/5/2011

Field Sample #: TRC-5

Sampled: 10/5/2011 13:20

Sample ID: 11J0173-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	µg/L	1	L-04, RL-07, V-05	SW-846 8260C	10/6/11	10/11/11 21:52	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:52	MFF
Benzene	7.2	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:52	MFF
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:52	MFF
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:52	MFF
Bromodichloromethane	ND	5.0	µg/L	1	RL-07	SW-846 8260C	10/6/11	10/11/11 21:52	MFF
Bromoform	ND	5.0	µg/L	1	RL-07	SW-846 8260C	10/6/11	10/11/11 21:52	MFF
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:52	MFF
2-Butanone (MEK)	ND	10	µg/L	1	V-05	SW-846 8260C	10/6/11	10/11/11 21:52	MFF
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:52	MFF
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:52	MFF
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:52	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:52	MFF
Carbon Disulfide	ND	10	µg/L	1	RL-07	SW-846 8260C	10/6/11	10/11/11 21:52	MFF
Carbon Tetrachloride	ND	5.0	µg/L	1	RL-07	SW-846 8260C	10/6/11	10/11/11 21:52	MFF
Chlorobenzene	11	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:52	MFF
Chlorodibromomethane	ND	5.0	µg/L	1	RL-07	SW-846 8260C	10/6/11	10/11/11 21:52	MFF
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:52	MFF
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:52	MFF
Chloromethane	ND	2.0	µg/L	1	V-05	SW-846 8260C	10/6/11	10/11/11 21:52	MFF
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:52	MFF
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:52	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1	RL-07	SW-846 8260C	10/6/11	10/11/11 21:52	MFF
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:52	MFF
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:52	MFF
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:52	MFF
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:52	MFF
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:52	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:52	MFF
1,1-Dichloroethane	1.9	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:52	MFF
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:52	MFF
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:52	MFF
cis-1,2-Dichloroethylene	13	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:52	MFF
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:52	MFF
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:52	MFF
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:52	MFF
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:52	MFF
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:52	MFF
cis-1,3-Dichloropropene	ND	5.0	µg/L	1	RL-07	SW-846 8260C	10/6/11	10/11/11 21:52	MFF
trans-1,3-Dichloropropene	ND	5.0	µg/L	1	RL-07	SW-846 8260C	10/6/11	10/11/11 21:52	MFF
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:52	MFF
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:52	MFF
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:52	MFF

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Kiley Barrel

Sample Description:

Work Order: 11J0173

Date Received: 10/5/2011

Field Sample #: TRC-5

Sampled: 10/5/2011 13:20

Sample ID: 11J0173-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:52	MFF
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:52	MFF
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:52	MFF
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:52	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:52	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:52	MFF
Methylene Chloride	ND	5.0	µg/L	1	RL-07	SW-846 8260C	10/6/11	10/11/11 21:52	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:52	MFF
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:52	MFF
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:52	MFF
Styrene	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:52	MFF
1,1,1,2-Tetrachloroethane	ND	5.0	µg/L	1	RL-07	SW-846 8260C	10/6/11	10/11/11 21:52	MFF
1,1,2,2-Tetrachloroethane	ND	5.0	µg/L	1	RL-07	SW-846 8260C	10/6/11	10/11/11 21:52	MFF
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:52	MFF
Tetrahydrofuran	ND	2.0	µg/L	1	V-05	SW-846 8260C	10/6/11	10/11/11 21:52	MFF
Toluene	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:52	MFF
1,2,3-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:52	MFF
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:52	MFF
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:52	MFF
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:52	MFF
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:52	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:52	MFF
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:52	MFF
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:52	MFF
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:52	MFF
Vinyl Chloride	6.0	2.0	µg/L	1	L-04	SW-846 8260C	10/6/11	10/11/11 21:52	MFF
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:52	MFF
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 21:52	MFF

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	84.1	70-130		10/11/11 21:52
Toluene-d8	98.2	70-130		10/11/11 21:52
4-Bromofluorobenzene	98.9	70-130		10/11/11 21:52

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Kiley Barrel

Sample Description:

Work Order: 11J0173

Date Received: 10/5/2011

Field Sample #: TRC-5

Sampled: 10/5/2011 13:20

Sample ID: 11J0173-03

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	10/7/11	10/10/11 16:04	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	10/7/11	10/10/11 16:04	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	10/7/11	10/10/11 16:04	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	10/7/11	10/10/11 16:04	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	10/7/11	10/10/11 16:04	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	10/7/11	10/10/11 16:04	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	10/7/11	10/10/11 16:04	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	10/7/11	10/10/11 16:04	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	10/7/11	10/10/11 16:04	JMB
Surrogates		% Recovery	Recovery Limits	Flag					
Decachlorobiphenyl [1]	70.6	30-150						10/10/11 16:04	
Decachlorobiphenyl [2]	70.9	30-150						10/10/11 16:04	
Tetrachloro-m-xylene [1]	97.8	30-150						10/10/11 16:04	
Tetrachloro-m-xylene [2]	94.2	30-150						10/10/11 16:04	



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Kiley Barrel

Sample Description:

Work Order: 11J0173

Date Received: 10/5/2011

Field Sample #: TRC-5

Sampled: 10/5/2011 13:20

Sample ID: 11J0173-03

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Organic Carbon	4.8	1.0	mg/L	1		SM 5310B	10/6/11	10/6/11 9:00	LL



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Lowell, MA 01854

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TRC Reference Number 113338.4750.0000

November 17, 2011

Mr. Horace Cetoute
13 Allen Street
Somerville, MA 02143

Subject: Results of Environmental Sampling on Your Property
Former Kiley Barrel Site, Somerville, Massachusetts
Release Tracking Number (RTN) 3-2849

Dear Mr. Cetoute,

On behalf of the City of Somerville, TRC Environmental Corporation (TRC) conducted environmental sampling at 13 Allen Street in Somerville, Massachusetts to investigate the extent of a release that occurred at the Former Kiley Barrel Site. Per regulations set forth in the Massachusetts Contingency Plan (MCP) 310 CMR 40.1403(10), TRC is providing to you the results of groundwater sampling conducted at your property within 30 days of receiving the analytical results from the laboratory on October 20, 2011. For convenience, TRC has prepared a summary table for the sampling activities data (see Table 1). The Massachusetts Department of Environmental Protection (MassDEP) Notice form is provided in Attachment A. Copies of the laboratory analytical reports are provided in Attachment B.

Groundwater samples were collected at your property on October 5, 2011 from monitoring well TRC-08 and TRC-12. No compounds were detected.

Submittals related to this release may be viewed at the MassDEP web site as follows:

http://public.dep.state.ma.us/wsc_viewer/main.aspx

To view information related to this release, enter the RTN "3-2849" in the space provided.

13 Allen Street
November 17, 2011

TRC RN 113338.4750.0000
Page 2

If you have any questions, please feel free to contact me at (978) 656-3612.

Sincerely,

TRC Environmental Corporation



Dennis G. Tuttle
Licensed Site Professional

Enclosures

Table 1. Summary of Analytical Results for Groundwater Samples - October 2011

Attachment A. MassDEP Notice of Environmental Sampling Form (BWSC 123)

Attachment B. Laboratory Analytical

cc: Mr. N. Scott Buchanan, TRC
Mr. Steven Azar, City of Somerville
Mr. Andrew Clark, MassDEP



Table 1. Summary of Analytical Results for Groundwater Samples - October 2011
Kiley Barrel - 13 Allen Street
Somerville, Massachusetts

Analysis	Analyte	Sample ID:		TRC-0R	TRC-12
		Sample Date:		10/6/2011	10/6/2011
		GW-2	GW-3		
VOCs (ug/L)	Acetone	50,000	50,000	10 U	10 U
	tert-Amyl methyl Ether	NS	NS	0.50 U	0.50 U
	Benzene	2,000	10,000	1.0 U	1.0 U
	Bromobenzene	NS	NS	1.0 U	1.0 U
	Bromochloromethane	NS	NS	1.0 U	1.0 U
	Bromodichloromethane	6	50,000	5.0 U	5.0 U
	Bromoform	700	50,000	5.0 U	5.0 U
	Bromomethane	7	800	2.0 U	2.0 U
	2-Butanone (MEK)	50000	50000	10 U	10 U
	n-Butylbenzene	7,000 ⁽¹⁾	50,000 ⁽¹⁾	1.0 U	1.0 U
	sec-Butylbenzene	7,000 ⁽¹⁾	50,000 ⁽¹⁾	1.0 U	1.0 U
	tert-Butylethyl Ether	NS	NS	0.50 U	0.50 U
	Carbon Disulfide	NS	NS	10 U	10 U
	Carbon Tetrachloride	2	5,000	5.0 U	5.0 U
	Chlorobenzene	200	1,000	1.0 U	1.0 U
	Chlordibromomethane	20	50,000	5.0 U	5.0 U
	Chloroethane	NS	NS	2.0 U	2.0 U
	Chloroform	50	20,000	2.0 U	2.0 U
	Chloromethane	NS	NS	2.0 U	2.0 U
	2-Chlorotoluene	NS	NS	1.0 U	1.0 U
	4-Chlorotoluene	NS	NS	1.0 U	1.0 U
	1,2-Dibromo-3-Chloropropane	NS	NS	5.0 U	5.0 U
	1,2-Dibromoethane	2	50,000	0.50 U	0.50 U
	Dibromomethane	NS	NS	1.0 U	1.0 U
	1,2-Dichlorobenzene	2,000	2,000	1.0 U	1.0 U
	1,3-Dichlorobenzene	2,000	50,000	1.0 U	1.0 U
	1,4-Dichlorobenzene	200	8,000	1.0 U	1.0 U
	Dichlorodifluoromethane	NS	NS	2.0 U	2.0 U
	1,1-Dichloroethane	1,000	20,000	1.0 U	1.0 U
	1,2-Dichloroethane	5	20,000	1.0 U	1.0 U
	1,1-Dichloroethylene	80	30,000	1.0 U	1.0 U
	cis-1,2-Dichloroethylene	100	50,000	1.0 U	1.0 U
	trans-1,2-Dichloroethylene	90	50,000	1.0 U	1.0 U
	1,2-Dichloropropene	3	50,000	1.0 U	1.0 U
	1,3-Dichloropropene	NS	NS	0.50 U	0.50 U
	2,2-Dichloropropene	NS	NS	1.0 U	1.0 U
	1,1-Dichloropropene	NS	NS	2.0 U	2.0 U
	cis-1,3-Dichloropropene	10 ⁽²⁾	200 ⁽²⁾	5.0 U	5.0 U
	trans-1,3-Dichloropropene	10 ⁽²⁾	200 ⁽²⁾	5.0 U	5.0 U
	Diethyl Ether	NS	NS	2.0 U	2.0 U
	Diisopropyl Ether	NS	NS	0.50 U	0.50 U
	1,4-Dioxane	6,000	50,000	50 U	50 U
	Ethylbenzene	20,000	5,000	1.0 U	1.0 U
	Hexachlorobutadiene	1	3,000	0.50 U	0.50 U
	2-Hexanone	NS	NS	10 U	10 U
	Isopropylbenzene	7,000 ⁽¹⁾	50,000 ⁽¹⁾	1.0 U	1.0 U
	p-Isopropyltoluene	7,000 ⁽¹⁾	50,000 ⁽¹⁾	1.0 U	1.0 U
	MTBE	50,000	50,000	1.0 U	1.0 U
	Methylene Chloride	10,000	50,000	5.0 U	5.0 U
	MIBK	50,000	50,000	10 U	10 U
	Naphthalene	1,000	20,000	2.0 U	2.0 U
	n-Propylbenzene	7,000 ⁽¹⁾	50,000 ⁽¹⁾	1.0 U	1.0 U
	Styrene	100	6,000	1.0 U	1.0 U
	1,1,1,2-Tetrachloroethane	10	50,000	5.0 U	5.0 U
	1,1,2,2-Tetrachloroethane	9	50,000	5.0 U	5.0 U
	Tetrachloroethylene	50	30,000	1.0 U	1.0 U
	Tetrahydrofuran	NS	NS	2.0 U	2.0 U
	Toluene	50,000	40,000	1.0 U	1.0 U
	1,2,3-Trichlorobenzene	NS	NS	2.0 U	2.0 U
	1,2,4-Trichlorobenzene	2,000	50,000	1.0 U	1.0 U
	1,1,1-Trichloroethane	4,000	20,000	1.0 U	1.0 U
	1,1,2-Trichloroethane	900	50,000	1.0 U	1.0 U
	Trichloroethylene	30	5,000	1.0 U	1.0 U
	Trichlorofluoromethane	NS	NS	2.0 U	2.0 U
	1,2,3-Trichloropropane	NS	NS	2.0 U	2.0 U
	1,2,4-Trimethylbenzene	7,000 ⁽¹⁾	50,000 ⁽¹⁾	1.0 U	1.0 U
	1,3,5-Trimethylbenzene	7,000 ⁽¹⁾	50,000 ⁽¹⁾	1.0 U	1.0 U
	Vinyl Chloride	2	50,000	2.0 U	2.0 U
	m+p-Xylene	9,000	5,000	2.0 U	2.0 U
	o-Xylene	9,000	5,000	1.0 U	1.0 U
	Xylenes	9,000	5,000	2.0 U	2.0 U
PCBs (ug/L)	PCB 1016	5	10	0.20 U	0.20 U
	PCB 1221	5	10	0.20 U	0.20 U
	PCB 1232	5	10	0.20 U	0.20 U
	PCB 1242	5	10	0.20 U	0.20 U
	PCB 1248	5	10	0.20 U	0.20 U
	PCB 1254	5	10	0.20 U	0.20 U
	PCB 1260	5	10	0.20 U	0.20 U
	PCB 1262	5	10	0.20 U	0.20 U
	PCB 1268	5	10	0.20 U	0.20 U
	Total PCBs	5	10	0.20 U	0.20 U
Carbon (ug/L)	Total Organic Carbon	NS	NS	10,000	17,000

Notes:

ug L - micrograms per liter

J - Estimated value

NS - No MassDEP standards exist for this compound.

U - Compound was not detected at specified quantitation limit

Values in **Bold** indicate the compound was detected.

Values shown in bold and shaded represent one or more of the following:
 Method E Standard
 Method F Standard

VOCs - Volatile Organic Compounds.

PCBs - Polychlorinated Biphenyls.

(1) - MassDEP Method 1 standards for C9-C10 aromatic hydrocarbons used.

(2) - MassDEP Method 1 for 1,3-Dichloropropene used.

ATTACHMENT A

**MASSDEP NOTICE OF
ENVIRONMENTAL SAMPLING FORM
(BWSC 123)**



NOTICE OF ENVIRONMENTAL SAMPLING
As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

BWSC 123

This Notice is Related to
Release Tracking Number

3 2849

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: 20-22 Prospect Street (Former Kiley Barrel Site)

City/Town: Somerville Zip Code: 02143

B. This notice is being provided to the following party:

1. Name: Horace Cetoute

2. Street Address: 13 Allen Street (PO Box 314)

City/Town: Somerville Zip Code: 02143

C. This notice is being given to inform its recipient (the party listed in Section B):

- 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
- 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
- 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 13 Allen Street

City/Town: Somerville Zip Code: 02143

2. MCP phase of work during which the sampling will be/has been conducted:

- Immediate Response Action
- Release Abatement Measure
- Utility-related Abatement Measure
- Phase I Initial Site Investigation
- Phase II Comprehensive Site Assessment

- Phase III Feasibility Evaluation
- Phase IV Remedy Implementation Plan
- Phase V/Remedy Operation Status
- Post-Class C Operation, Maintenance and Monitoring
- Other _____

(specify)

3. Description of property where sampling will be/has been conducted:

residential commerical industrial school/playground Other _____

(specify)

4. Description of the sampling locations and types (e.g., soil, groundwater) to the extent known at the time of this notice.

-TRC conducted one round of groundwater sampling from the monitoring wells, TRC-08 and TRC-12. The groundwater sample was analyzed for VOCs, polychlorinated biphenyls (PCBs), and total organic carbon (TOC).

E. Contact information related to the party providing this notice:

Contact Name: Steven Azar, City of Somerville Senior Planner

Street Address: 93 Highland Avenue

City/Town: Somerville, MA Zip Code: 02143

Telephone: (617) 625-6600 Email: SAzar@somervillema.gov

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation under the Massachusetts Contingency Plan at a property on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/dep/cleanup/oview.htm>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://mass.gov/dep/about/region/schedule.htm> if you would like to make an appointment to see these files. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

ATTACHMENT B

**LABORATORY ANALYTICAL
REPORTS**

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Somerville, Ma (Kiley Barrel)

Sample Description:

Work Order: 11J0208

Date Received: 10/6/2011

Field Sample #: TRC-12

Sampled: 10/6/2011 11:15

Sample ID: 11J0208-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	µg/L	1	RL-07	SW-846 8260C	10/7/11	10/7/11 16:50	TJR
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1	V-05	SW-846 8260C	10/7/11	10/7/11 16:50	TJR
Benzene	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:50	TJR
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:50	TJR
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:50	TJR
Bromodichloromethane	ND	5.0	µg/L	1	RL-07	SW-846 8260C	10/7/11	10/7/11 16:50	TJR
Bromoform	ND	5.0	µg/L	1	RL-07	SW-846 8260C	10/7/11	10/7/11 16:50	TJR
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:50	TJR
2-Butanone (MEK)	ND	10	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:50	TJR
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:50	TJR
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:50	TJR
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:50	TJR
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:50	TJR
Carbon Disulfide	ND	10	µg/L	1	RL-07	SW-846 8260C	10/7/11	10/7/11 16:50	TJR
Carbon Tetrachloride	ND	5.0	µg/L	1	RL-07	SW-846 8260C	10/7/11	10/7/11 16:50	TJR
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:50	TJR
Chlorodibromomethane	ND	5.0	µg/L	1	RL-07	SW-846 8260C	10/7/11	10/7/11 16:50	TJR
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:50	TJR
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:50	TJR
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:50	TJR
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:50	TJR
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:50	TJR
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1	RL-07, V-05	SW-846 8260C	10/7/11	10/7/11 16:50	TJR
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:50	TJR
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:50	TJR
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:50	TJR
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:50	TJR
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:50	TJR
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:50	TJR
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:50	TJR
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:50	TJR
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:50	TJR
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:50	TJR
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:50	TJR
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:50	TJR
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:50	TJR
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:50	TJR
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:50	TJR
cis-1,3-Dichloropropene	ND	5.0	µg/L	1	RL-07	SW-846 8260C	10/7/11	10/7/11 16:50	TJR
trans-1,3-Dichloropropene	ND	5.0	µg/L	1	RL-07, V-05	SW-846 8260C	10/7/11	10/7/11 16:50	TJR
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:50	TJR
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:50	TJR
1,4-Dioxane	ND	50	µg/L	1	R-05, V-16	SW-846 8260C	10/7/11	10/7/11 16:50	TJR

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Somerville, Ma (Kiley Barrel)

Sample Description:

Work Order: 11J0208

Date Received: 10/6/2011

Field Sample #: TRC-12

Sampled: 10/6/2011 11:15

Sample ID: 11J0208-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:50	TJR
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:50	TJR
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:50	TJR
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:50	TJR
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:50	TJR
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:50	TJR
Methylene Chloride	ND	5.0	µg/L	1	RL-07	SW-846 8260C	10/7/11	10/7/11 16:50	TJR
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:50	TJR
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:50	TJR
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:50	TJR
Styrene	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:50	TJR
1,1,1,2-Tetrachloroethane	ND	5.0	µg/L	1	RL-07	SW-846 8260C	10/7/11	10/7/11 16:50	TJR
1,1,2,2-Tetrachloroethane	ND	5.0	µg/L	1	RL-07	SW-846 8260C	10/7/11	10/7/11 16:50	TJR
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:50	TJR
Tetrahydrofuran	ND	2.0	µg/L	1	V-05	SW-846 8260C	10/7/11	10/7/11 16:50	TJR
Toluene	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:50	TJR
1,2,3-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:50	TJR
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:50	TJR
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:50	TJR
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:50	TJR
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:50	TJR
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:50	TJR
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:50	TJR
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:50	TJR
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:50	TJR
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:50	TJR
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:50	TJR
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:50	TJR

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	92.2	70-130	10/7/11 16:50
Toluene-d8	97.6	70-130	10/7/11 16:50
4-Bromofluorobenzene	94.1	70-130	10/7/11 16:50

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Somerville, Ma (Kiley Barrel)

Sample Description:

Work Order: 11J0208

Date Received: 10/6/2011

Field Sample #: TRC-12

Sampled: 10/6/2011 11:15

Sample ID: 11J0208-01

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	10/11/11	10/11/11 14:06	PJG
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	10/11/11	10/11/11 14:06	PJG
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	10/11/11	10/11/11 14:06	PJG
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	10/11/11	10/11/11 14:06	PJG
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	10/11/11	10/11/11 14:06	PJG
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	10/11/11	10/11/11 14:06	PJG
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	10/11/11	10/11/11 14:06	PJG
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	10/11/11	10/11/11 14:06	PJG
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	10/11/11	10/11/11 14:06	PJG
Surrogates		% Recovery	Recovery Limits	Flag					
Decachlorobiphenyl [1]	63.9	30-150						10/11/11 14:06	
Decachlorobiphenyl [2]	63.5	30-150						10/11/11 14:06	
Tetrachloro-m-xylene [1]	105	30-150						10/11/11 14:06	
Tetrachloro-m-xylene [2]	100	30-150						10/11/11 14:06	



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Somerville, Ma (Kiley Barrel)

Sample Description:

Work Order: 11J0208

Date Received: 10/6/2011

Field Sample #: TRC-12

Sampled: 10/6/2011 11:15

Sample ID: 11J0208-01

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Organic Carbon	17	2.0	mg/L	2	R-05	SM 5310B	10/10/11	10/10/11 9:20	LL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Somerville, Ma (Kiley Barrel)

Sample Description:

Work Order: 11J0208

Date Received: 10/6/2011

Field Sample #: TRC-8

Sampled: 10/6/2011 11:30

Sample ID: 11J0208-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	µg/L	1	RL-07	SW-846 8260C	10/7/11	10/7/11 16:18	TJR
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1	V-05	SW-846 8260C	10/7/11	10/7/11 16:18	TJR
Benzene	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:18	TJR
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:18	TJR
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:18	TJR
Bromodichloromethane	ND	5.0	µg/L	1	RL-07	SW-846 8260C	10/7/11	10/7/11 16:18	TJR
Bromoform	ND	5.0	µg/L	1	RL-07	SW-846 8260C	10/7/11	10/7/11 16:18	TJR
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:18	TJR
2-Butanone (MEK)	ND	10	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:18	TJR
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:18	TJR
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:18	TJR
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:18	TJR
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:18	TJR
Carbon Disulfide	ND	10	µg/L	1	RL-07	SW-846 8260C	10/7/11	10/7/11 16:18	TJR
Carbon Tetrachloride	ND	5.0	µg/L	1	RL-07	SW-846 8260C	10/7/11	10/7/11 16:18	TJR
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:18	TJR
Chlorodibromomethane	ND	5.0	µg/L	1	RL-07	SW-846 8260C	10/7/11	10/7/11 16:18	TJR
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:18	TJR
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:18	TJR
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:18	TJR
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:18	TJR
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:18	TJR
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1	RL-07, V-05	SW-846 8260C	10/7/11	10/7/11 16:18	TJR
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:18	TJR
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:18	TJR
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:18	TJR
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:18	TJR
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:18	TJR
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:18	TJR
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:18	TJR
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:18	TJR
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:18	TJR
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:18	TJR
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:18	TJR
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:18	TJR
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:18	TJR
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:18	TJR
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:18	TJR
cis-1,3-Dichloropropene	ND	5.0	µg/L	1	RL-07	SW-846 8260C	10/7/11	10/7/11 16:18	TJR
trans-1,3-Dichloropropene	ND	5.0	µg/L	1	RL-07, V-05	SW-846 8260C	10/7/11	10/7/11 16:18	TJR
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:18	TJR
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:18	TJR
1,4-Dioxane	ND	50	µg/L	1	R-05, V-16	SW-846 8260C	10/7/11	10/7/11 16:18	TJR

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Somerville, Ma (Kiley Barrel)

Sample Description:

Work Order: 11J0208

Date Received: 10/6/2011

Field Sample #: TRC-8

Sampled: 10/6/2011 11:30

Sample ID: 11J0208-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:18	TJR
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:18	TJR
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:18	TJR
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:18	TJR
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:18	TJR
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:18	TJR
Methylene Chloride	ND	5.0	µg/L	1	RL-07	SW-846 8260C	10/7/11	10/7/11 16:18	TJR
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:18	TJR
Naphthalene	ND	2.0	µg/L	t		SW-846 8260C	10/7/11	10/7/11 16:18	TJR
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:18	TJR
Styrene	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:18	TJR
1,1,1,2-Tetrachloroethane	ND	5.0	µg/L	1	RL-07	SW-846 8260C	10/7/11	10/7/11 16:18	TJR
1,1,2,2-Tetrachloroethane	ND	5.0	µg/L	1	RL-07	SW-846 8260C	10/7/11	10/7/11 16:18	TJR
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:18	TJR
Tetrahydrofuran	ND	2.0	µg/L	1	V-05	SW-846 8260C	10/7/11	10/7/11 16:18	TJR
Toluene	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:18	TJR
1,2,3-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:18	TJR
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:18	TJR
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:18	TJR
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:18	TJR
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:18	TJR
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:18	TJR
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:18	TJR
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:18	TJR
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:18	TJR
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:18	TJR
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:18	TJR
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 16:18	TJR
Surrogates		% Recovery	Recovery Limits	Flag					
1,2-Dichloroethane-d4		92.4	70-130			10/7/11 16:18			
Toluene-d8		98.8	70-130			10/7/11 16:18			
4-Bromofluorobenzene		95.8	70-130			10/7/11 16:18			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Somerville, Ma (Kiley Barrel)

Sample Description:

Work Order: 11J0208

Date Received: 10/6/2011

Field Sample #: TRC-8

Sampled: 10/6/2011 11:30

Sample ID: 11J0208-02

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	10/7/11	10/10/11 18:38	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	10/7/11	10/10/11 18:38	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	10/7/11	10/10/11 18:38	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	10/7/11	10/10/11 18:38	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	10/7/11	10/10/11 18:38	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	10/7/11	10/10/11 18:38	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	10/7/11	10/10/11 18:38	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	10/7/11	10/10/11 18:38	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	10/7/11	10/10/11 18:38	JMB
Surrogates		% Recovery	Recovery Limits	Flag					
Decachlorobiphenyl [1]	69.0	30-150						10/10/11 18:38	
Decachlorobiphenyl [2]	69.5	30-150						10/10/11 18:38	
Tetrachloro-m-xylene [1]	95.6	30-150						10/10/11 18:38	
Tetrachloro-m-xylene [2]	92.9	30-150						10/10/11 18:38	



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Somerville, Ma (Kiley Barrel)

Sample Description:

Work Order: 11J0208

Date Received: 10/6/2011

Field Sample #: TRC-8

Sampled: 10/6/2011 11:30

Sample ID: 11J0208-02

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APIA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Organic Carbon	10	1.0	mg/L	1	R-05	SM 5310B	10/10/11	10/10/11 9:20	LL



Wannalancit Mills
650 Suffolk Street
Lowell, MA 01854

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978.453.1995 FAX

www.TRCsolutions.com

TRC Reference Number 113338.4750.0000

November 17, 2011

Michael Lipinski
9 Allen Street
Somerville, MA 02143

Subject: Results of Environmental Sampling on Your Property
Former Kiley Barrel Site, Somerville, Massachusetts
Release Tracking Number (RTN) 3-2849 (previously RTN 3-28464)

Dear Mr. Lipinski,

On behalf of the City of Somerville, TRC Environmental Corporation (TRC) conducted environmental sampling at 9 Allen Street in Somerville, Massachusetts to investigate the extent of a release that occurred at the Former Kiley Barrel Site. Per regulations set forth in the Massachusetts Contingency Plan (MCP) 310 CMR 40.1403(10), TRC is providing to you the results of soil gas, indoor air, and groundwater sampling conducted at your property within 30 days of receiving the analytical results from the laboratory on October 20, 2011. For convenience, TRC has prepared summary tables for the sampling activities data (see Tables 1 and 2). The Massachusetts Department of Environmental Protection (MassDEP) Notice form is provided in Attachment A. Copies of the laboratory analytical reports are provided in Attachment B.

An indoor air sample at your property was collected on October 7, 2011 from the basement (sample name: 9 ALL B). Because vapors potentially migrating from the site would travel underground, impacts from the site would affect the basement air quality to a greater extent than the first floor air quality. Indoor air quality at your home can also be affected by off-gassing from building materials and furnishings, indoor use of chemicals (e.g., cleaning products), and storage of power equipment. An outdoor air sample (sample name: UPWIND) was also collected at the same time to determine air quality in the area from outdoor sources (e.g., vehicular traffic) during the sampling. These results are displayed in Table 1

Due to damage sustained by the soil gas point (SG-2), a soil gas sample was not able to be collected. The soil gas point will be repaired at a future date prior to the next round of soil gas sampling which is planned March or April, 2012.

Groundwater samples were collected at your property on October 5, 2011 from monitoring well TRC-01. These results are displayed in Table 2. No compounds were detected above the MCP GW-2 groundwater standards.

9 Allen Street
November 17, 2011

TRC RN 113338.4750.0000
Page 2

Previous sample data were evaluated in the Supplemental Phase II Comprehensive Site Assessment (CSA) Report, submitted to the MassDEP in Spring 2010. The risk characterization, completed as part of the Supplemental Phase II CSA Report, concluded that exposure to compounds in indoor air, potentially present as a result of vapors migrating from the Site, was associated with a condition of No Significant Risk (as defined by the MCP). Since there were no significant changes in concentrations of detected compounds in indoor air between previous sampling rounds and the October 2011 sampling round, a condition of No Significant Risk associated with compounds potentially related to the site still applies to this property.

Submittals related to this release may be viewed at the MassDEP web site as follows:

http://public.dep.state.ma.us/wsc_viewer/main.aspx

To view information related to this release, enter the RTN "3-2849" in the space provided. Previous reports generated for these activities can be viewed by entering the RTN "3-28464" on the MassDEP website. RTN 3-28464 was recently linked to the primary RTN for the Kiley Barrel Site, 3-2849.

If you have any questions, please feel free to contact me at (978) 656-3612.

Sincerely,

TRC Environmental Corporation



Dennis G. Tuttle
Licensed Site Professional

Enclosures

- Table 1. Summary of Analytical Results for Indoor Air Samples - October 2011
- Table 2. Summary of Analytical Results for Groundwater Samples - October 2011
- Attachment A. MassDEP Notice of Environmental Sampling Form (BWSC 123)
- Attachment B. Laboratory Analytical

Enclosures

- cc: N. Scott Buchanan, TRC
Mr. Steven Azar, City of Somerville
Mr. Andrew Clark, MassDEP



Table 1. Summary of Analytical Results for Indoor Air Samples - October 2011
Kiley Barrel - 9 Allen Street
Somerville, Massachusetts

Analysis	Analyte	Sample ID:	9 ALL B	UPWIND
		Sample Date:	10/7/2011	10/7/2011
Indoor Air Action Limit*				
TO-15 (ug/m³)	1,1,1-Trichloroethane	3.0	0.109 U	0.109 U
	1,1,2,2-Tetrachloroethane	0.041	0.137 U	0.137 U
	1,1,2-Trichloroethane	0.15	0.109 U	0.109 U
	1,1-Dichloroethane	0.8	0.085	0.081 U
	1,1-Dichloroethene	0.8	0.079 U	0.079 U
	1,2,4-Trichlorobenzene	3.4	0.371 U	0.371 U
	1,2-Dibromoethane	0.011	0.154 U	0.154 U
	1,2-Dichlorobenzene	0.72	0.120 U	0.120 U
	1,2-Dichloroethane	0.090	0.081 U	0.081 U
	1,2-Dichloropropane	0.13	0.092 U	0.092 U
	1,3-Dichlorobenzene	0.60	0.120 U	0.120 U
	1,4-Dichlorobenzene	0.5	0.120 U	0.120 U
	1,4-Dioxane	0.59	0.360 U	0.360 U
	Acetone	91	5.84	6.60
	Benzene	2.3	0.383	0.441
	Bromodichloromethane	0.14	0.134 U	0.134 U
	Bromoform	2.2	0.207 U	0.207 U
	Bromomethane	0.60	0.078 U	0.078 U
	Carbon tetrachloride	0.54	0.40	0.421
	Chlorobenzene	2.3	0.092 U	0.092 U
	Chloroform	1.9	0.142	0.098 U
	cis-1,2-Dichloroethene	0.8	0.178	0.079 U
	cis-1,3-Dichloropropene	0.60	0.091 U	0.091 U
	Dibromochloromethane	0.10	0.170 U	0.170 U
	Ethylbenzene	7.4	0.243	0.304
	Hexachlorobutadiene	0.11	0.533 U	0.533 U
	2-Butanone	12	0.593	0.590 U
	4-Methyl-2-pentanone	2.2	0.820 U	0.820 U
	Methylene chloride	5.0	4.86 U	4.86 U
	Methyl tert butyl ether	39	0.072 U	0.072 U
	Naphthalene	0.61	0.262 U	0.262 U
	p/m-Xylene	20	0.669	0.869
	o-Xylene	20	0.265	0.317
	Styrene	1.4	0.085 U	0.085 U
	Tetrachloroethene	1.4	0.57	0.373
	Toluene	54	4.07	4.03
	trans-1,2-Dichloroethene	0.80	0.079 U	0.079 U
	trans-1,3-Dichloropropene	0.60	0.091 U	0.091 U
	Trichloroethene	0.80	0.107 U	0.107 U
	Vinyl chloride	0.27	0.051 U	0.051 U
	1,2,4-Trimethylbenzene	10 ⁽²⁾	NA	NA
	Benzyl chloride	NS	NA	NA
	1,3-Butadiene	NS	NA	NA
	Vinyl acetate	NS	NA	NA
	Tetrahydrofuran	NS	NA	NA
	n-Hexane	58 ⁽¹⁾	NA	NA
	Cyclohexane	58 ⁽¹⁾	NA	NA
	Propylene	NS	NA	NA
	Xylenes (total)	20	NA	NA
	Ethyl Acetate	NS	NA	NA
	Heptane	58 ⁽¹⁾	NA	NA
	2-Hexanone	NS	NA	NA
	4-Ethyltoluene	10 ⁽²⁾	NA	NA
	Ethanol	NS	NA	NA
	Isopropanol	NS	NA	NA
	Chloromethane	NS	NA	NA
	Chloroethane	NS	NA	NA
	Carbon disulfide	NS	NA	NA

Table 1. Summary of Analytical Results for Indoor Air Samples - October 2011
Kiley Barrel - 9 Alien Street
Somerville, Massachusetts

Analysis	Analytic	Sample ID:	9 ALL B	UPWIND	
		Sample Date:	10/7/2011	10/7/2011	
		Indoor Air Action Limit*			
	Trichlorofluoromethane	NS	NA	NA	
	Dichlorodifluoromethane	NS	NA	NA	
	Freon-113	NS	NA	NA	
	Freon-114	NS	NA	NA	
APH (ug/m ³)	1,3-Butadiene	NS	2.00 U	2.00 U	
	Methyl tert butyl ether	39	2.00 U	2.00 U	
	Benzene	2.3	2.00 U	2.00 U	
	Toluene	54	3.90	3.90	
	C5-C8 Aliphatics	58	12.0 U	12.0 U	
	Ethylbenzene	7.4	2.00 U	2.00 U	
	p/m-Xylene	20	4.00 U	4.00 U	
	o-Xylene	20	2.00 U	2.00 U	
	Naphthalene	0.61	2.00 U	2.00 U	
	C9-C12 Aliphatics	68	14.0 U	14.0 U	
	C9-C10 Aromatics**	10	10.0 U	10.0 U	

Notes:

ug/m³ - micrograms per cubic meters.

J - Estimated value; detected below quantitation limit.

NA - Sample not analyzed for the listed analyte.

NS - No MassDEP standards exist for this compound.

U - Compound was not detected at specified quantitation limit.

Values in **Bold** indicate the compound was detected.

Values shown in **Bold** and shaded type exceed the listed criteria.

APH - Air-Phase Petroleum Hydrocarbons.

TO - Toxic organics.

* - MassDEP, Indoor Air Residential Threshold Values (IATV), Vapor Intrusion Guidance

** - C9-C10 Aromatics (Total) for samples collected on 10/7/2011.

- Interim Draft, December 2010.

(1) - IATV for C5-C8 aliphatics used.

(2) - IATV for C9-C10 aromatics used.

Table 2. Summary of Analytical Results for Groundwater Samples - 1997 through 2011
 Kiley Barrel - 9 Allen Street
 Somerville, Massachusetts

Analysis	Analyte	Sample ID:		TRC-1 10/7/2011
		Sample Date GW-2	Sample Date GW-3	
VOCs (ug/L)				
	Acetone	50,000	50,000	10 U
	tert-Amylmethyl Ether	NS	NS	0.50 U
	Benzene	2,000	10,000	1.0 U
	Bromobenzene	NS	NS	1.0 U
	Bromochloromethane	NS	NS	1.0 U
	Bromodichloromethane	6	50,000	5.0 U
	Bromoform	700	50,000	5.0 U
	Bromomethane	7	800	2.0 U
	2-Butanone (MEK)	50,000	50,000	10 U
	n-Butylbenzene	7,000 ⁽¹⁾	50,000 ⁽¹⁾	1.0 U
	sec-Butylbenzene	7,000 ⁽¹⁾	50,000 ⁽¹⁾	1.0 U
	tert-Butylbenzene	7,000 ⁽¹⁾	50,000 ⁽¹⁾	1.0 U
	Carbon Disulfide	NS	NS	0.50 U
	Carbon Tetrachloride	2	5,000	2.0 U
	Chlorobenzene	200	1,000	1.0 U
	Chlordibromomethane	20	50,000	5.0 U
	Chlorehane	NS	NS	2.0 U
	Chloroform	50	20,000	2.0 U
	2-Chlorotoluene	NS	NS	2.0 U
	4-Chlorotoluene	NS	NS	1.0 U
	1,2-Dibromo-3-Chloropropane	NS	NS	5.0 U
	1,2-Dibromoethane	2	50,000	0.50 U
	Dibromomethane	NS	NS	1.0 U
	1,2-Dichlorobenzene	2,000	2,000	1.0 U
	1,3-Dichlorobenzene	2,000	50,000	1.0 U
	1,4-Dichlorobenzene	200	8,000	1.0 U
	Dichlorodifluoromethane	NS	NS	2.0 U
	1,1-Dichloroethane	1,000	20,000	4.6
	1,2-Dichloroethane	5	20,000	1.0 U
	1,1-Dichloroethylene	RD	30,000	1.0 U
	cis-1,2-Dichloroethylene	100	50,000	24
	trans-1,2-Dichloroethylene	90	50,000	1.0 U
	1,2-Dichloropropane	3	50,000	1.0 U
	1,3-Dichloropropane	NS	NS	0.50 U
	2,2-Dichloropropane	NS	NS	1.0 U
	1,1-Dichloropropene	NS	NS	2.0 U
	cis-1,3-Dichloropropene	10 ⁽²⁾	200 ⁽²⁾	5.0 U
	trans-1,3-Dichloropropene	10 ⁽²⁾	200 ⁽²⁾	5.0 U
	Diethyl Ether	NS	NS	2.0 U
	Diisopropyl Ether	NS	NS	0.50 U
	1,4-Dioxane	6,000	50,000	50 U
	Ethylbenzene	20,000	5,000	1.0 U
	Hexachlorobutadiene	1	3,000	0.50 U
	2-Hexanone	NS	NS	10 U
	Isopropylbenzene	7,000 ⁽¹⁾	50,000 ⁽¹⁾	1.0 U
	p-Isopropyltoluene	7,000 ⁽¹⁾	50,000 ⁽¹⁾	1.0 U
	MTBE	50,000	50,000	1.0 U
	Methylene Chloride	10,000	50,000	5.0 U
	MBK	50,000	50,000	10 U
	Naphthalene	1,000	20,000	2.0 U
	n-Propylbenzene	7,000 ⁽¹⁾	50,000 ⁽¹⁾	1.0 U
	Styrene	100	6,000	1.0 U
	1,1,1,2-Tetrachloroethane	10	50,000	5.0 U
	1,1,2,2-Tetrachloroethane	9	50,000	5.0 U
	Tetrachloroethylene	50	30,000	6.8
	Tetrahydrofuran	NS	NS	2.0 U
	Toluene	50,000	40,000	1.0 U
	1,2,3-Trichlorobenzene	NS	NS	2.0 U
	1,2,4-Trichlorobenzene	2,000	50,000	1.0 U
	1,1,1-Trichloroethane	4,000	20,000	1.2
	1,1,2-Trichloroethane	900	50,000	1.0 U
	Trichloroethylene	30	5,000	3.1
	Trichlorofluoromethane	NS	NS	2.0 U
	1,2,3-Trichloropropane	NS	NS	2.0 U
	1,2,4-Trimethylbenzene	7,000 ⁽¹⁾	50,000 ⁽¹⁾	1.0 U
	1,3,5-Trimethylbenzene	7,000 ⁽¹⁾	50,000 ⁽¹⁾	1.0 U
	Vinyl Chloride	2	50,000	2.0 U
	m+p-Xylene	9,000	5,000	2.0 U
	o-Xylene	9,000	5,000	1.0 U
	Xylenes	9,000	5,000	2.0 U
PCBs (ug/L)	PCB 1016	5	10	0.20 U
	PCB 1221	5	10	0.20 U
	PCB 1232	5	10	0.20 U
	PCB 1242	5	10	0.20 U
	PCB 1248	5	10	0.20 U
	PCB 1254	5	10	0.20 U
	PCB 1260	5	10	0.20 U
	PCB 1262	5	10	0.20 U
	PCB 1268	5	10	0.20 U
	Total PCBs	5	10	0.20 U
Carbon (ug/L)	Total Organic Carbon	NS	NS	2,000

Notes:

ug/L = microgram per liter.

J = Estimated value

NS = No MassDEP standards exist for this compound.

U = Compound was not detected at specified quantitation limit.

Values in Bold indicate the compound was detected.

Values shown in Bold and Shaded type exceed one or more of the listed MassDEP Method Standards.

VOCs = Volatile Organic Compounds.

PCBs = Polychlorinated Biphenyls.

(1) = MassDEP Method 1 standard for C9-C10 aromatic hydrocarbons used.

(2) = MassDEP Method 1 for 1,2-Dichloropropene used.

ATTACHMENT A

MASSDEP NOTICE OF ENVIRONMENTAL SAMPLING FORM (BWSC 123)



NOTICE OF ENVIRONMENTAL SAMPLING
As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

BWSC 123

This Notice is Related to
Release Tracking Number

3 2849

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: 20-22 Prospect Street (Former Kiley Barrel Site)

City/Town: Somerville Zip Code: 02143

B. This notice is being provided to the following party:

1. Name: Mr. Michael A. Lipinski

2. Street Address: 9 Allen Street

City/Town: Somerville Zip Code: 02143

C. This notice is being given to inform its recipient (the party listed in Section B):

- 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
- 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
- 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 9 Allen Street

City/Town: Somerville Zip Code: 02143

2. MCP phase of work during which the sampling will be/has been conducted:

Immediate Response Action

Phase III Feasibility Evaluation

Release Abatement Measure

Phase IV Remedy Implementation Plan

Utility-related Abatement Measure

Phase V/Remedy Operation Status

Phase I Initial Site Investigation

Post-Class C Operation, Maintenance and Monitoring

Phase II Comprehensive Site Assessment

Other _____

(specify)

3. Description of property where sampling will be/has been conducted:

residential commerical industrial school/playground Other _____

(specify)

4. Description of the sampling locations and types (e.g., soil, groundwater) to the extent known at the time of this notice.

-TRC conducted one round of indoor air sampling from the basement. An additional air sample was collected from an outdoor upwind location. Air samples were analyzed for volatile organic compounds (VOCs).

-TRC conducted one round of groundwater sampling from the monitoring well, TRC-01. The groundwater sample was analyzed for VOCs, polychlorinated biphenyls (PCBs), and total organic carbon (TOC).

E. Contact information related to the party providing this notice:

Contact Name: Steven Azar, City of Somerville Senior Planner

Street Address: 93 Highland Avenue

City/Town: Somerville, MA Zip Code: 02143

Telephone: (617) 625-6600 Email: SAzar@somervillema.gov

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation under the Massachusetts Contingency Plan at a property on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/dep/cleanup/oview.htm>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://mass.gov/dep/about/region/schedule.htm> if you would like to make an appointment to see these files. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

ATTACHMENT B

**LABORATORY ANALYTICAL
REPORTS**

Project Name: KILEY BARREL

Lab Number: L1116329

Project Number: 113338

Report Date: 10/21/11

SAMPLE RESULTS

Lab ID:	L1116329-02	Date Collected:	10/07/11 12:19
Client ID:	9ALLB	Date Received:	10/07/11
Sample Location:	SOMERVILLE, MA	Field Prep:	Not Specified
Matrix:	Air		
Anaytical Method:	101,TO15-SIM		
Analytical Date:	10/13/11 19:59		
Analyst:	RY		

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
MCP Volatile Organics in Air by SIM - Mansfield Lab								
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
1,1-Dichloroethane	0.021	0.020	--	0.085	0.081	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Acetone	2.46	1.00	--	5.84	2.38	--		1
Benzene	0.120	0.100	--	0.383	0.319	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Carbon tetrachloride	0.063	0.020	--	0.396	0.126	--		1
Chlorobenzene	ND	0.020	--	ND	0.092	--		1
Chloroform	0.029	0.020	--	0.142	0.098	--		1
cis-1,2-Dichloroethene	0.045	0.020	--	0.178	0.079	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1



Project Name: KILEY BARREL

Lab Number: L1116329

Project Number: 113338

Report Date: 10/21/11

SAMPLE RESULTS

Lab ID:	L1116329-02	Date Collected:	10/07/11 12:19
Client ID:	9ALLB	Date Received:	10/07/11
Sample Location:	SOMERVILLE, MA	Field Prep:	Not Specified

Parameter	ppbV			ug/m3			Dilution Factor
	Results	RL	MDL	Results	RL	MDL	Qualifier
MCP Volatile Organics in Air by SIM - Mansfield Lab							
Ethylbenzene	0.056	0.020	--	0.243	0.087	--	1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--	1
2-Butanone	0.201	0.200	--	0.593	0.590	--	1
4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--	1
Methylene chloride	ND	1.40	--	ND	4.86	--	1
Methyl tert butyl ether	ND	0.020	--	ND	0.072	--	1
Naphthalene	ND	0.050	--	ND	0.262	--	1
p/m-Xylene	0.154	0.040	--	0.669	0.174	--	1
o-Xylene	0.061	0.020	--	0.265	0.087	--	1
Styrene	ND	0.020	--	ND	0.085	--	1
Tetrachloroethene	0.084	0.020	--	0.570	0.136	--	1
Toluene	1.08	0.050	--	4.07	0.188	--	1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--	1
Trichloroethene	ND	0.020	--	ND	0.107	--	1
Vinyl chloride	ND	0.020	--	ND	0.051	--	1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	108		60-140
bromochloromethane	104		60-140
chlorobenzene-d5	104		60-140



Project Name: KILEY BARREL

Lab Number: L1116329

Project Number: 113338

Report Date: 10/21/11

SAMPLE RESULTS

Lab ID:	L1116329-02	Date Collected:	10/07/11 12:19
Client ID:	9ALLB	Date Received:	10/07/11
Sample Location:	SOMERVILLE, MA	Field Prep:	Not Specified
Matrix:	Air		
Analytical Method:	96,APH		
Analytical Date:	10/13/11 19:59		
Analyst:	RY		

Quality Control Information

Sample Type:	4 Hour Composite
Sample Container Type:	Canister - 6 Liter
Sampling Flow Controller:	Mechanical
Sampling Zone:	Unknown
Sampling Flow Meter RPD of pre & post-sampling calibration check:	<=20%
Were all QA/QC procedures REQUIRED by the method followed?	Yes
Were all performance/acceptance standards for the required procedures achieved?	Yes
Were significant modifications made to the method as specified in Sect 11.1.2?	No

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbons in Air - Mansfield Lab						
1,3-Butadiene	ND		ug/m3	2.0	--	1
Methyl tert butyl ether	ND		ug/m3	2.0	--	1
Benzene	ND		ug/m3	2.0	--	1
Toluene	3.9		ug/m3	2.0	--	1
C5-C8 Aliphatics, Adjusted	ND		ug/m3	12	--	1
Ethylbenzene	ND		ug/m3	2.0	--	1
p/m-Xylene	ND		ug/m3	4.0	--	1
o-Xylene	ND		ug/m3	2.0	--	1
Naphthalene	ND		ug/m3	2.0	--	1
C9-C12 Aliphatics, Adjusted	ND		ug/m3	14	--	1
C9-C10 Aromatics Total	ND		ug/m3	10	--	1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	105		50-200
Bromochloromethane	105		50-200
Chlorobenzene-d5	102		50-200

Project Name: KILEY BARREL

Lab Number: L1116329

Project Number: 113338

Report Date: 10/21/11

SAMPLE RESULTS

Lab ID: L1116329-01 Date Collected: 10/07/11 12:58
 Client ID: UPWIND Date Received: 10/07/11
 Sample Location: SOMERVILLE, MA Field Prep: Not Specified
 Matrix: Air
 Analytical Method: 101,TO15-SIM
 Analytical Date: 10/13/11 19:24
 Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
MCP Volatile Organics in Air by SIM - Mansfield Lab								
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Acetone	2.78	1.00	--	6.60	2.38	--		1
Benzene	0.138	0.100	--	0.441	0.319	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Carbon tetrachloride	0.067	0.020	--	0.421	0.126	--		1
Chlorobenzene	ND	0.020	--	ND	0.092	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1



Project Name: KILEY BARREL

Lab Number: L1116329

Project Number: 113338

Report Date: 10/21/11

SAMPLE RESULTS

Lab ID:	L1116329-01	Date Collected:	10/07/11 12:58
Client ID:	UPWIND	Date Received:	10/07/11
Sample Location:	SOMERVILLE, MA	Field Prep:	Not Specified

Parameter	Results	ppbV		Results	ug/m3		Qualifier	Dilution Factor
		RL	MDL		RL	MDL		
MCP Volatile Organics in Air by SIM - Mansfield Lab								
Ethylbenzene	0.070	0.020	--	0.304	0.087	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1
2-Butanone	ND	0.200	--	ND	0.590	--		1
4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--		1
Methylene chloride	ND	1.40	--	ND	4.86	--		1
Methyl tert butyl ether	ND	0.020	--	ND	0.072	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
p/m-Xylene	0.200	0.040	--	0.869	0.174	--		1
o-Xylene	0.073	0.020	--	0.317	0.087	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
Tetrachloroethene	0.055	0.020	--	0.373	0.136	--		1
Toluene	1.07	0.050	--	4.03	0.188	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	105		60-140
bromochloromethane	103		60-140
chlorobenzene-d5	102		60-140



Project Name: KILEY BARREL

Project Number: 113338

Lab Number: L1116329

Report Date: 10/21/11

SAMPLE RESULTS

Lab ID:	L1116329-01	Date Collected:	10/07/11 12:58
Client ID:	UPWIND	Date Received:	10/07/11
Sample Location:	SOMERVILLE, MA	Field Prep:	Not Specified
Matrix:	Air		
Analytical Method:	96,APH		
Analytical Date:	10/13/11 19:24		
Analyst:	RY		

Quality Control Information

Sample Type:	4 Hour Composite
Sample Container Type:	Canister - 6 Liter
Sampling Flow Controller:	Mechanical
Sampling Zone:	Unknown
Sampling Flow Meter RPD of pre & post-sampling calibration check:	<=20%
Were all QA/QC procedures REQUIRED by the method followed?	Yes
Were all performance/acceptance standards for the required procedures achieved?	Yes
Were significant modifications made to the method as specified in Sect 11.1.2?	No

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbons in Air - Mansfield Lab						
1,3-Butadiene	ND		ug/m3	2.0	--	1
Methyl tert butyl ether	ND		ug/m3	2.0	--	1
Benzene	ND		ug/m3	2.0	--	1
Toluene	3.9		ug/m3	2.0	--	1
C5-C8 Aliphatics, Adjusted	ND		ug/m3	12	--	1
Ethylbenzene	ND		ug/m3	2.0	--	1
p/m-Xylene	ND		ug/m3	4.0	--	1
o-Xylene	ND		ug/m3	2.0	--	1
Naphthalene	ND		ug/m3	2.0	--	1
C9-C12 Aliphatics, Adjusted	ND		ug/m3	14	--	1
C9-C10 Aromatics Total	ND		ug/m3	10	--	1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	102		50-200
Bromochloromethane	103		50-200
Chlorobenzene-d5	99		50-200

Project Name: KILEY BARREL

Lab Number: L1116329

Project Number: 113338

Report Date: 10/21/11

SAMPLE RESULTS

Lab ID:	L1116329-01	Date Collected:	10/07/11 12:58
Client ID:	UPWIND	Date Received:	10/07/11
Sample Location:	SOMERVILLE, MA	Field Prep:	Not Specified
Matrix:	Air		
Anaytical Method:	101,TO15-SIM		
Analytical Date:	10/13/11 19:24		
Analyst:	RY		

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
MCP Volatile Organics in Air by SIM - Mansfield Lab								
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Acetone	2.78	1.00	--	6.60	2.38	--		1
Benzene	0.138	0.100	--	0.441	0.319	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Carbon tetrachloride	0.067	0.020	--	0.421	0.126	--		1
Chlorobenzene	ND	0.020	--	ND	0.092	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1



Project Name: KILEY BARREL**Lab Number:** L1116329**Project Number:** 113338**Report Date:** 10/21/11**SAMPLE RESULTS**

Lab ID:	L1116329-01	Date Collected:	10/07/11 12:58
Client ID:	UPWIND	Date Received:	10/07/11
Sample Location:	SOMERVILLE, MA	Field Prep:	Not Specified

Parameter	ppbV			ug/m3			Dilution Factor
	Results	RL	MDL	Results	RL	MDL	Qualifier
MCP Volatile Organics in Air by SIM - Mansfield Lab							
Ethylbenzene	0.070	0.020	--	0.304	0.087	--	1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--	1
2-Butanone	ND	0.200	--	ND	0.590	--	1
4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--	1
Methylene chloride	ND	1.40	--	ND	4.86	--	1
Methyl tert butyl ether	ND	0.020	--	ND	0.072	--	1
Naphthalene	ND	0.050	--	ND	0.262	--	1
p/m-Xylene	0.200	0.040	--	0.869	0.174	--	1
o-Xylene	0.073	0.020	--	0.317	0.087	--	1
Styrene	ND	0.020	--	ND	0.085	--	1
Tetrachloroethene	0.055	0.020	--	0.373	0.136	--	1
Toluene	1.07	0.050	--	4.03	0.188	--	1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--	1
Trichloroethene	ND	0.020	--	ND	0.107	--	1
Vinyl chloride	ND	0.020	--	ND	0.051	--	1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	105		60-140
bromochloromethane	103		60-140
chlorobenzene-d5	102		60-140



Project Name: KILEY BARREL

Project Number: 113338

Lab Number: L1116329

Report Date: 10/21/11

SAMPLE RESULTS

Lab ID:	L1116329-01	Date Collected:	10/07/11 12:58
Client ID:	UPWIND	Date Received:	10/07/11
Sample Location:	SOMERVILLE, MA	Field Prep:	Not Specified
Matrix:	Air		
Analytical Method:	96,APH		
Analytical Date:	10/13/11 19:24		
Analyst:	RY		

Quality Control Information

Sample Type:	4 Hour Composite
Sample Container Type:	Canister - 6 Liter
Sampling Flow Controller:	Mechanical
Sampling Zone:	Unknown
Sampling Flow Meter RPD of pre & post-sampling calibration check:	<=20%
Were all QA/QC procedures REQUIRED by the method followed?	Yes
Were all performance/acceptance standards for the required procedures achieved?	Yes
Were significant modifications made to the method as specified in Sect 11.1.2?	No

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbons in Air - Mansfield Lab						
1,3-Butadiene	ND		ug/m3	2.0	--	1
Methyl tert butyl ether	ND		ug/m3	2.0	--	1
Benzene	ND		ug/m3	2.0	--	1
Toluene	3.9		ug/m3	2.0	--	1
C5-C8 Aliphatics, Adjusted	ND		ug/m3	12	--	1
Ethylbenzene	ND		ug/m3	2.0	--	1
p/m-Xylene	ND		ug/m3	4.0	--	1
o-Xylene	ND		ug/m3	2.0	--	1
Naphthalene	ND		ug/m3	2.0	--	1
C9-C12 Aliphatics, Adjusted	ND		ug/m3	14	--	1
C9-C10 Aromatics Total	ND		ug/m3	10	--	1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	102		50-200
Bromochloromethane	103		50-200
Chlorobenzene-d5	99		50-200

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Kiley Barrel Somerville, MA

Sample Description:

Work Order: 11J0249

Date Received: 10/7/2011

Field Sample #: TRC-1

Sampled: 10/7/2011 10:35

Sample ID: 11J0249-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	µg/L	1		SW-846 8260C	10/12/11	10/12/11 14:44	TJR
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	10/12/11	10/12/11 14:44	TJR
Benzene	ND	1.0	µg/L	1		SW-846 8260C	10/12/11	10/12/11 14:44	TJR
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/12/11	10/12/11 14:44	TJR
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	10/12/11	10/12/11 14:44	TJR
Bromodichloromethane	ND	5.0	µg/L	1	RL-07	SW-846 8260C	10/12/11	10/12/11 14:44	TJR
Bromoform	ND	5.0	µg/L	1	RL-07	SW-846 8260C	10/12/11	10/12/11 14:44	TJR
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	10/12/11	10/12/11 14:44	TJR
2-Butanone (MEK)	ND	10	µg/L	1		SW-846 8260C	10/12/11	10/12/11 14:44	TJR
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/12/11	10/12/11 14:44	TJR
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/12/11	10/12/11 14:44	TJR
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/12/11	10/12/11 14:44	TJR
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	10/12/11	10/12/11 14:44	TJR
Carbon Disulfide	ND	10	µg/L	1	R-05, RL-07	SW-846 8260C	10/12/11	10/12/11 14:44	TJR
Carbon Tetrachloride	ND	2.0	µg/L	1		SW-846 8260C	10/12/11	10/12/11 14:44	TJR
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/12/11	10/12/11 14:44	TJR
Chlorodibromomethane	ND	5.0	µg/L	1	RL-07	SW-846 8260C	10/12/11	10/12/11 14:44	TJR
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	10/12/11	10/12/11 14:44	TJR
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	10/12/11	10/12/11 14:44	TJR
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	10/12/11	10/12/11 14:44	TJR
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	10/12/11	10/12/11 14:44	TJR
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	10/12/11	10/12/11 14:44	TJR
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1	RL-07	SW-846 8260C	10/12/11	10/12/11 14:44	TJR
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	10/12/11	10/12/11 14:44	TJR
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	10/12/11	10/12/11 14:44	TJR
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/12/11	10/12/11 14:44	TJR
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/12/11	10/12/11 14:44	TJR
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/12/11	10/12/11 14:44	TJR
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	10/12/11	10/12/11 14:44	TJR
1,1-Dichloroethane	4.6	1.0	µg/L	1		SW-846 8260C	10/12/11	10/12/11 14:44	TJR
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	10/12/11	10/12/11 14:44	TJR
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	10/12/11	10/12/11 14:44	TJR
cis-1,2-Dichloroethylene	24	1.0	µg/L	1		SW-846 8260C	10/12/11	10/12/11 14:44	TJR
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	10/12/11	10/12/11 14:44	TJR
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	10/12/11	10/12/11 14:44	TJR
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	10/12/11	10/12/11 14:44	TJR
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	10/12/11	10/12/11 14:44	TJR
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	10/12/11	10/12/11 14:44	TJR
cis-1,3-Dichloropropene	ND	5.0	µg/L	1	RL-07	SW-846 8260C	10/12/11	10/12/11 14:44	TJR
trans-1,3-Dichloropropene	ND	5.0	µg/L	1	RL-07	SW-846 8260C	10/12/11	10/12/11 14:44	TJR
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	10/12/11	10/12/11 14:44	TJR
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	10/12/11	10/12/11 14:44	TJR
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	10/12/11	10/12/11 14:44	TJR

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Kiley Barrel Somerville, MA

Sample Description:

Work Order: 11J0249

Date Received: 10/7/2011

Field Sample #: TRC-1

Sampled: 10/7/2011 10:35

Sample ID: 11J0249-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/12/11	10/12/11 14:44	TJR
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	10/12/11	10/12/11 14:44	TJR
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	10/12/11	10/12/11 14:44	TJR
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	10/12/11	10/12/11 14:44	TJR
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	10/12/11	10/12/11 14:44	TJR
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	10/12/11	10/12/11 14:44	TJR
Methylene Chloride	ND	5.0	µg/L	1	RL-07	SW-846 8260C	10/12/11	10/12/11 14:44	TJR
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	10/12/11	10/12/11 14:44	TJR
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	10/12/11	10/12/11 14:44	TJR
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/12/11	10/12/11 14:44	TJR
Styrene	ND	1.0	µg/L	1		SW-846 8260C	10/12/11	10/12/11 14:44	TJR
1,1,1,2-Tetrachloroethane	ND	5.0	µg/L	1	RL-07	SW-846 8260C	10/12/11	10/12/11 14:44	TJR
1,1,2,2-Tetrachloroethane	ND	5.0	µg/L	1	RL-07	SW-846 8260C	10/12/11	10/12/11 14:44	TJR
Tetrachloroethylene	6.0	1.0	µg/L	1		SW-846 8260C	10/12/11	10/12/11 14:44	TJR
Tetrahydrofuran	ND	2.0	µg/L	1		SW-846 8260C	10/12/11	10/12/11 14:44	TJR
Toluene	ND	1.0	µg/L	1		SW-846 8260C	10/12/11	10/12/11 14:44	TJR
1,2,3-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	10/12/11	10/12/11 14:44	TJR
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/12/11	10/12/11 14:44	TJR
1,1,1-Trichloroethane	1.2	1.0	µg/L	1		SW-846 8260C	10/12/11	10/12/11 14:44	TJR
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	10/12/11	10/12/11 14:44	TJR
Trichloroethylene	3.1	1.0	µg/L	1		SW-846 8260C	10/12/11	10/12/11 14:44	TJR
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	10/12/11	10/12/11 14:44	TJR
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	10/12/11	10/12/11 14:44	TJR
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/12/11	10/12/11 14:44	TJR
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/12/11	10/12/11 14:44	TJR
Vinyl Chloride	ND	2.0	µg/L	1	L-04	SW-846 8260C	10/12/11	10/12/11 14:44	TJR
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	10/12/11	10/12/11 14:44	TJR
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	10/12/11	10/12/11 14:44	TJR
Surrogates		% Recovery	Recovery Limits	Flag					
1,2-Dichloroethane-d4		99.2	70-130						10/12/11 14:44
Toluene-d8		98.9	70-130						10/12/11 14:44
4-Bromofluorobenzene		93.5	70-130						10/12/11 14:44

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Kiley Barrel Somerville, MA

Sample Description:

Work Order: 11J0249

Date Received: 10/7/2011

Field Sample #: TRC-1

Sampled: 10/7/2011 10:35

Sample ID: 11J0249-01

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	10/10/11	10/10/11 22:21	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	10/10/11	10/10/11 22:21	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	10/10/11	10/10/11 22:21	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	10/10/11	10/10/11 22:21	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	10/10/11	10/10/11 22:21	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	10/10/11	10/10/11 22:21	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	10/10/11	10/10/11 22:21	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	10/10/11	10/10/11 22:21	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	10/10/11	10/10/11 22:21	JMB
Surrogates		% Recovery	Recovery Limits	Flag					
Decachlorobiphenyl [1]		78.6	30-150						
Decachlorobiphenyl [2]		79.7	30-150						
Tetrachloro-m-xylene [1]		90.7	30-150						
Tetrachloro-m-xylene [2]		88.4	30-150						



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Kiley Barrel Somerville, MA

Sample Description:

Work Order: 11J0249

Date Received: 10/7/2011

Field Sample #: TRC-1

Sampled: 10/7/2011 10:35

Sample ID: 11J0249-01

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Organic Carbon	2.0	1.0	mg/L	1	R-05	SM 5310B	10/10/11	10/10/11 9:20	LL



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TRC Reference Number 113338.4750.0000

November 17, 2011

Diane Loadwick
11 Allen Street
Somerville, MA 02143

Subject: Results of Environmental Sampling on Your Property
Former Kiley Barrel Site, Somerville, Massachusetts
Release Tracking Number (RTN) 3-2849 (previously RTN 3-28464)

Dear Ms. Loadwick,

On behalf of the City of Somerville, TRC Environmental Corporation (TRC) conducted environmental sampling at 11 Allen Street in Somerville, Massachusetts to investigate the extent of a release that occurred at the Former Kiley Barrel Site. Per regulations set forth in the Massachusetts Contingency Plan (MCP) 310 CMR 40.1403(10), TRC is providing to you the results of soil gas, indoor air, and groundwater sampling conducted at your property within 30 days of receiving the analytical results from the laboratory on October 20, 2011. For convenience, TRC has prepared summary tables for the sampling activities data (see Tables 1-3). The Massachusetts Department of Environmental Protection (MassDEP) Notice form is provided in Attachment A. Copies of the laboratory analytical reports are provided in Attachment B.

An indoor air sample at your property was collected on October 6, 2011 from the basement (sample name: 11 ALL B). Because vapors potentially migrating from the site would travel underground, impacts from the site would affect the basement air quality to a greater extent than the first floor air quality. Indoor air quality at your home can also be affected by off-gassing from building materials and furnishings, indoor use of chemicals (e.g., cleaning products), and storage of power equipment. An outdoor air sample (sample name: UPWIND) was also collected the following day to determine air quality in the area from outdoor sources (e.g., vehicular traffic). These results are displayed in Table 1.

A soil gas sample (SG-1) was collected from beneath your home on October 6, 2011 to measure the vapors potentially migrating from the site to your property. These results are displayed in Table 2. On the attached summary tables, the indoor air, outdoor air and soil gas sample results are compared to health-based screening criteria established to determine whether further evaluation of the data are indicated.

Groundwater samples were collected at your property on October 5, 2011 from monitoring wells TRC-02, TRC-2M, and TRC-03. These results are displayed in Table 3.

Vinyl chloride and 1,2-dichloroethane in monitoring well TRC-02 were the only compounds detected above the MCP GW-2 groundwater standards. Both of these compounds have been detected at TRC-02 in previous sampling events.

The compounds detected in indoor air during the October 2011 sampling round were similar to previous rounds and were detected at similar concentrations. TRC conducted a human health risk characterization using data collected in January 2010 and concluded that there was no Imminent Hazard (as defined by the MCP) associated with those sample results. The January 2010 data were further evaluated in the Supplemental Phase II Comprehensive Site Assessment (CSA) Report, submitted to the MassDEP in Spring 2010. The risk characterization, completed as part of the Supplemental Phase II CSA Report, concluded that exposure to compounds in indoor air, potentially present as a result of vapors migrating from the Site, was associated with a condition of No Significant Risk (as defined by the MCP). Since there were no significant changes in concentrations of detected compounds between previous sampling rounds and the October 2011 sampling round, a condition of No Significant Risk associated with compounds potentially related to the Site still applies at this property.

Consistent with previous soil gas samples collected in August 2009, January 2010, and April 2011, vapors were detected in the soil gas beneath your home. However, none of the compounds were detected at concentrations greater than their soil gas screening criteria. No compounds in indoor air were detected at concentrations greater than their indoor air screening criteria. As previously stated, indoor air quality can be affected by many sources, including storage of dry-cleaned clothing and the use of cleaning products.

Submittals related to this release may be viewed at the MassDEP web site as follows:

http://public.dep.state.ma.us/wsc_viewer/main.aspx

To view information related to this release, enter the RTN "3-2849" in the space provided. Previous reports generated for these activities can be viewed by entering the RTN "3-28464" on the MassDEP website. RTN 3-28464 was recently linked to the primary RTN for the Kiley Barrel Site, 3-2849.

11 Allen Street
November 17, 2011

TRC RN 113338.4750.0000
Page 3

If you have any questions, please feel free to contact me at (978) 656-3612.

Sincerely,

TRC Environmental Corporation



Dennis G. Tuttle
Licensed Site Professional

Enclosures

Table 1. Summary of Analytical Results for Indoor Air Samples - October 2011

Table 2. Summary of Analytical Results for Soil Gas Samples - October 2011

Table 3. Summary of Analytical Results for Groundwater Samples - October 2011

Attachment A. MassDEP Notice of Environmental Sampling Form (BWSC 123)

Attachment B. Laboratory Analytical

cc: N. Scott Buchanan, TRC
Mr. Steven Azar, City of Somerville
Mr. Andrew Clark, MassDEP



Table 1. Summary of Analytical Results for Indoor Air Samples - October 2011
Kiley Barrel - 11 Allen Street
Somerville, Massachusetts

Analysis	Analytic	Sample ID:	11 ALL B	UPWIND	
		Sample Date:	10/6/2011	10/7/2011	
		Indoor Air Action Limit*			
TO-15 (ug/m ³)	1,1,1-Trichloroethane	3.0	0.109 U	0.109 U	
	1,1,2,2-Tetrachloroethane	0.041	0.137 U	0.137 U	
	1,1,2-Trichloroethane	0.15	0.109 U	0.109 U	
	1,1-Dichloroethane	0.8	0.081 U	0.081 U	
	1,1-Dichloroethene	0.8	0.079 U	0.079 U	
	1,2,4-Trichlorobenzene	3.4	0.371 U	0.371 U	
	1,2-Dibromoethane	0.011	0.154 U	0.154 U	
	1,2-Dichlorobenzene	0.72	0.12 U	0.120 U	
	1,2-Dichloroethane	0.090	0.081 U	0.081 U	
	1,2-Dichloropropane	0.13	0.092 U	0.092 U	
	1,3-Dichlorobenzene	0.60	0.12 U	0.120 U	
	1,4-Dichlorobenzene	0.5	0.12 U	0.120 U	
	1,4-Dioxane	0.59	0.36 U	0.360 U	
	Acetone	91	6.29	6.60	
	Benzene	2.3	0.319 U	0.441	
	Bromodichloromethane	0.14	0.134 U	0.134 U	
	Bromoform	2.2	0.207 U	0.207 U	
	Bromomethane	0.60	0.078 U	0.078 U	
	Carbon tetrachloride	0.54	0.421	0.421	
	Chlorobenzene	2.3	0.092 U	0.092 U	
	Chloroform	1.9	0.151	0.098 U	
	cis-1,2-Dichloroethene	0.8	0.147	0.079 U	
	cis-1,3-Dichloropropene	0.60	0.091 U	0.091 U	
	Dibromochloromethane	0.10	0.17 U	0.170 U	
	Ethylbenzene	7.4	0.478	0.304	
	Hexachlorobutadiene	0.11	0.533 U	0.533 U	
	2-Butanone	12	0.914	0.590 U	
	4-Methyl-2-pentanone	2.2	0.82 U	0.820 U	
	Methylene chloride	5.0	4.86 U	4.86 U	
	Methyl tert butyl ether	39	0.072 U	0.072 U	
	Naphthalene	0.61	0.262 U	0.262 U	
	p/m-Xylene	20	1.66	0.869	
	o-Xylene	20	0.578	0.317	
	Styrene	1.4	0.085	0.085 U	
	Tetrachloroethene	1.4	0.292	0.373	
	Toluene	54	2.41	4.03	
	trans-1,2-Dichloroethene	0.80	0.079 U	0.079 U	
	trans-1,3-Dichloropropene	0.60	0.091 U	0.091 U	
	Trichloroethene	0.80	0.107 U	0.107 U	
	Vinyl chloride	0.27	0.051 U	0.051 U	
	1,2,4-Trimethylbenzene	10 ^(a)	NA	NA	
	Benzyl chloride	NS	NA	NA	
	1,3-Butadiene	NS	NA	NA	
	Vinyl acetate	NS	NA	NA	
	Tetrahydrofuran	NS	NA	NA	
	n-Hexane	58 ^(a)	NA	NA	
	Cyclohexane	58 ^(a)	NA	NA	
	Propylene	NS	NA	NA	
	Xylenes (total)	20	NA	NA	
	Ethyl Acetate	NS	NA	NA	
	Heptane	58 ^(a)	NA	NA	
	2-Hexanone	NS	NA	NA	
	4-Ethyltoluene	10 ^(a)	NA	NA	
	Ethanol	NS	NA	NA	
	Isopropanol	NS	NA	NA	
	Chloromethane	NS	NA	NA	
	Chloroethane	NS	NA	NA	
	Carbon disulfide	NS	NA	NA	

Table 1. Summary of Analytical Results for Indoor Air Samples - October 2011
Kiley Barrel - 11 Allen Street
Somerville, Massachusetts

Analysis	Analyte	Sample ID:	II ALL B	UPWIND
		Sample Date:	10/6/2011	10/7/2011
Indoor Air Action Limit*				
	Trichlorofluoromethane	NS	NA	NA
	Dichlorodifluoromethane	NS	NA	NA
	Freon-113	NS	NA	NA
	Freon-114	NS	NA	NA
APH (ug/m ³)	1,3-Butadiene	NS	2.00 U	2.00 U
	Methyl tert butyl ether	39	2.00 U	2.00 U
	Benzene	2.3	2.00 U	2.00 U
	Toluene	54	2.20	3.90
	C5-C8 Aliphatics	58	12.0 U	12.0 U
	Ethylbenzene	7.4	2.00 U	2.00 U
	p/m-Xylene	20	4.00 U	4.00 U
	o-Xylene	20	2.00 U	2.00 U
	Naphthalene	0.61	2.00 U	2.00 U
	C9-C12 Aliphatics	68	14.0 U	14.0 U
	C9-C10 Aromatics**	10	10.0 U	10.0 U

Notes:

ug/m³ - micrograms per cubic meters.

J - Estimated value; detected below quantitation limit.

NA - Sample not analyzed for the listed analyte.

NS - No MassDEP standards exist for this compound.

U - Compound was not detected at specified quantitation limit.

Values in **Bold** indicate the compound was detected.

Values shown in **Bold** and shaded type exceed the listed criteria.

APH - Air-Phase Petroleum Hydrocarbons.

TO - Toxic organics.

* - MassDEP, Indoor Air Residential Threshold Values (IATV), Vapor Intrusion Guidance

** - C9-C10 Aromatics (Total) for samples collected on 10/7/2011.

- Interim Draft, December 2010.

(1) - IATV for C5-C8 aliphatics used.

(2) - IATV for C9-C10 aromatics used.

Table 2. Summary of Analytical Results for Soil Gas Samples - October 2011
Kiley Barrel - 11 Allen Street
Somerville, Massachusetts

Analysis	Analyte	Sample ID:	SG-1	
		Sample Location:	11 Allen St.	
		Sample Date:	10/6/2011	
		Screening Values*		
TO-15 (ug/m3)	1,1,1-Trichloroethane	150	0.109	U
	1,1,2,2-Tetrachloroethane	2.05	0.137	U
	1,1,2-Trichloroethane	7.5	0.109	U
	1,1-Dichloroethane	40	0.142	
	1,1-Dichloroethene	40	0.079	U
	1,2,4-Trichlorobenzene	170	0.371	U
	1,2-Dibromoethane	0.55	0.154	U
	1,2-Dichlorobenzene	36	0.12	U
	1,2-Dichloroethane	4.5	0.125	
	1,2-Dichloropropane	6.5	0.092	U
	1,3-Dichlorobenzene	30	0.12	U
	1,4-Dichlorobenzene	25	0.12	U
	1,4-Dioxane	29.5	0.36	U
	Acetone	4,550	19.8	
	Benzene	115	0.348	
	Bromodichloromethane	7	0.134	U
	Bromoform	110	0.207	U
	Bromomethane	30	0.078	U
	Carbon tetrachloride	27	0.415	
	Chlorobenzene	115	0.092	U
	Chloroform	95	0.171	
	cis-1,2-Dichloroethene	40	0.305	
	cis-1,3-Dichloropropene	30	0.091	U
	Dibromochloromethane	5	0.17	U
	Ethylbenzene	370	0.673	
	Hexachlorobutadiene	5.5	0.533	U
	2-Butanone	600	0.911	
	4-Methyl-2-pentanone	110	0.82	U
	Methylene chloride	250	4.86	U
	Methyl tert butyl ether	1,950	0.072	U
	Naphthalene	30.5	0.262	U
	p/m-Xylene	1,000	2.51	
	o-Xylene	1,000	0.877	
	Styrene	70	0.187	
	Tetrachloroethene	70	0.407	
	Toluene	2,700	5.92	
	trans-1,2-Dichloroethene	40	0.079	U
	trans-1,3-Dichloropropene	30	0.091	U
	Trichloroethene	40	0.124	
	Vinyl chloride	13.5	0.051	U
	1,2,4-Trimethylbenzene	500 ⁽²⁾	NA	
	Benzyl chloride	NS	NA	
	1,3-Butadiene	NS	NA	
	Vinyl acetate	NS	NA	

Table 2. Summary of Analytical Results for Soil Gas Samples - October 2011
Kiley Barrel - 11 Allen Street
Somerville, Massachusetts

Analysis	Analyte	Sample ID:	SG-1
		Sample Location:	11 Allen St.
		Sample Date:	10/6/2011
		Screening Values*	
	1,3,5-Trimethylbenzene	500 ⁽²⁾	NA
	Tetrahydrofuran	NS	NA
	n-Hexane	2,900 ⁽¹⁾	NA
	Cyclohexane	2,900 ⁽¹⁾	NA
	Propylene	NS	NA
	Xylenes (total)	1,000	NA
	Ethyl Acetate	NS	NA
	Heptane	2,900 ⁽¹⁾	NA
	2-Hexanone	NS	NA
	4-Ethyltoluene	500 ⁽²⁾	NA
	Ethanol	NS	NA
	Isopropanol	NS	NA
	Chloromethane	NS	NA
	Chloroethane	NS	NA
	Carbon disulfide	NS	NA
	Trichlorofluoromethane	NS	NA
	Dichlorodifluoromethane	NS	NA
	Freon-113	NS	NA
	Freon-114	NS	NA
APH (ug/m ³)	1,3-Butadiene	NS	2.00 U
	Methyl tert butyl ether	1950	2.00 U
	Benzene	115	2.0 U
	Toluene	2,700	5.50
	C5-C8 Aliphatics	2,900	17
	Ethylbenzene	370	2.00 U
	p/m-Xylene	1,000	4.0 U
	o-Xylene	1,000	2.00 U
	Naphthalene	30.5	2.00 U
	C9-C12 Aliphatics	3,400	160
	C9-C10 Aromatics	500	10 U

Notes:

ug/m³ - micrograms per cubic meters.

J - Estimated value; detected below quantitation limit.

NA - Sample not analyzed for the listed analyte.

NS - No MassDEP standards exist for this compound.

U - Compound was not detected at specified quantitation limit.

Values in **Bold** indicate the compound was detected.

APH - Air-Phase Petroleum Hydrocarbons.

TO - Toxic organics.

* - Soil Gas Screening Values are based on 50x the MassDEP Indoor Air Residential Threshold Values from Vapor Intrusion Guidance - Interim Draft, December 2010, which represents a conservative soil gas to indoor air dilution attenuation factor.

(1) - IATV for C5-C8 aliphatics used.

(2) - IATV for C9-C10 aromatics used.

Table 3. Summary of Analytical Results for Groundwater Samples - October 2011
Kiley Barrel - 11 Allen Street
Somerville, Massachusetts

Analysis	Analyte	Sample ID:		TRC-2	TRC-2M	TRC-03
		Sample Date: GW-2	Sample Date: GW-3	10/6/2011	10/6/2011	10/7/2011
VOCs (ug/L)	Acetone	50,000	50,000	10 U	10 U	10 U
	tert-Amylmethyl Ether	NS	NS	0.50 U	0.50 U	0.50 U
	Benzene	2,000	10,000	1.0 U	1.0 U	1.0 U
	Bromobenzene	NS	NS	1.0 U	1.0 U	1.0 U
	Bromochloromethane	NS	NS	1.0 U	1.0 U	1.0 U
	Bromoform	6	50,000	5.0 U	5.0 U	1.0 U
	Bromomethane	700	50,000	5.0 U	5.0 U	5.0 U
	2-Butanone (MEK)	50000	50000	10 U	10 U	10 U
	n-Butylbenzene	7,000 ^a	50,000 ^a	1.0 U	1.0 U	1.0 U
	sec-Butylbenzene	7,000 ^a	50,000 ^a	1.0 U	1.0 U	1.0 U
	tert-Butylethyl Ether	NS	NS	0.50 U	0.50 U	0.50 U
	Carbon Disulfide	NS	NS	10 U	10 U	10 U
	Carbon Tetrachloride	2	5,000	5.0 U	5.0 U	2.0 U
	Chlorobenzene	200	1,000	1.0 U	1.0 U	1.0 U
	Chlorodibromomethane	20	50,000	5.0 U	5.0 U	5.0 U
	Chloroethane	NS	NS	2.0 U	2.0 U	2.0 U
	Chloroform	50	20,000	2.0 U	2.0 U	2.0 U
	Chloromethane	NS	NS	2.0 U	2.0 U	2.0 U
	2-Chlorotoluene	NS	NS	1.0 U	1.0 U	1.0 U
	4-Chlorotoluene	NS	NS	1.0 U	1.0 U	1.0 U
	1,2-Dibromo-3-Chloropropane	NS	NS	5.0 U	5.0 U	5.0 U
	1,2-Dibromomethane	2	50,000	0.50 U	0.50 U	0.50 U
	Dibromomethane	NS	NS	1.0 U	1.0 U	1.0 U
	1,2-Dichlorobenzene	2,000	2,000	1.0 U	1.0 U	1.0 U
	1,3-Dichlorobenzene	2,000	50,000	1.0 U	1.0 U	1.0 U
	1,4-Dichlorobenzene	200	8,000	1.0 U	1.0 U	1.0 U
	Dichlorodifluoromethane	NS	NS	2.0 U	2.0 U	2.0 U
	1,1-Dichloroethane	1,000	20,000	12	1.0	1.0 U
	1,2-Dichloroethane	5	20,000	5.4	1.0 U	1.0 U
	1,1-Dichloroethylene	80	30,000	1.0 U	1.0 U	1.0 U
	cis-1,2-Dichloroethylene	100	50,000	78	3.1	2.1
	trans-1,2-Dichloroethylene	90	50,000	1.0 U	1.0 U	1.0 U
	1,2-Dichloropropane	3	50,000	1.0 U	1.0 U	1.0 U
	1,3-Dichloropropane	NS	NS	0.50 U	0.50 U	0.50 U
	2,2-Dichloropropane	NS	NS	1.0 U	1.0 U	1.0 U
	1,1-Dichloropropene	NS	NS	2.0 U	2.0 U	2.0 U
	cis-1,3-Dichloropropene	10 ^b	200 ^b	5.0 U	5.0 U	5.0 U
	trans-1,3-Dichloropropene	10 ^b	200 ^b	5.0 U	5.0 U	5.0 U
	Diethyl Ether	NS	NS	2.0 U	2.0 U	2.0 U
	Diisopropyl Ether	NS	NS	0.50 U	0.50 U	0.50 U
	1,4-Dioxane	6,000	50,000	50 U	50 U	50 U
	Ethylbenzene	20,000	5,000	1.0 U	1.0 U	1.0 U
	Hexachlorobutadiene	1	3,000	0.50 U	0.50 U	0.50 U
	2-Hexanone	NS	NS	10 U	10 U	10 U
	Isopropylbenzene	7,000 ^a	50,000 ^a	1.0 U	1.0 U	1.0 U
	p-Isopropyltoluene	7,000 ^a	50,000 ^a	1.0 U	1.0 U	1.0 U
	MTBE	50,000	50,000	1.0 U	1.0 U	1.0 U
	Methylene Chloride	10,000	50,000	5.0 U	5.0 U	5.0 U
	MIBK	50,000	50,000	10 U	10 U	10 U
	Naphthalene	1,000	20,000	2.0 U	2.0 U	2.0 U
	n-Propylbenzene	7,000 ^a	50,000 ^a	1.0 U	1.0 U	1.0 U
	Syrene	100	6,000	1.0 U	1.0 U	1.0 U
	1,1,1,2-Tetrachloroethane	10	50,000	5.0 U	5.0 U	5.0 U
	1,1,2,2-Tetrachloroethane	9	50,000	5.0 U	5.0 U	5.0 U
	Tetrachloroethylene	50	30,000	2.3	1.0 U	1.0 U
	Tetrahydrofuran	NS	NS	2.0 U	2.0 U	2.0 U
	Toluene	50,000	40,000	1.0 U	1.0 U	1.0 U
	1,2,3-Trichlorobenzene	NS	NS	2.0 U	2.0 U	2.0 U
	1,2,4-Trichlorobenzene	2,000	50,000	1.0 U	1.0 U	1.0 U
	1,1,1-Trichloroethane	4,000	20,000	1.0 U	1.0 U	1.0 U
	1,1,2-Trichloroethane	900	50,000	1.0 U	1.0 U	1.0 U
	Trichloroethylene	30	5,000	4.1	1.0 U	1.0 U
	Trichlorofluoromethane	NS	NS	2.0 U	2.0 U	2.0 U
	1,2,3-Trichloropropene	NS	NS	2.0 U	2.0 U	2.0 U
	1,2,4-Trimethylbenzene	7,000 ^a	50,000 ^a	1.0 U	1.0 U	1.0 U
	1,3,5-Trimethylbenzene	7,000 ^a	50,000 ^a	1.0 U	1.0 U	1.0 U
	Vinyl Chloride	2	50,000	9.7	2.0 U	2.0 U
	m,p-Xylene	9,000	5,000	2.0 U	2.0 U	2.0 U
	o-Xylene	9,000	5,000	1.0 U	1.0 U	1.0 U
	Xylenes	9,000	5,000	2.0 U	2.0 U	2.0 U
PCBs (ug/L)	PCB 1016	5	10	0.20 U	0.20 U	0.20 U
	PCB 1221	5	10	0.20 U	0.20 U	0.20 U
	PCB 1232	5	10	0.20 U	0.20 U	0.20 U
	PCB 1242	5	10	0.20 U	0.20 U	0.20 U
	PCB 1248	5	10	0.20 U	0.20 U	0.20 U
	PCB 1254	5	10	0.20 U	0.20 U	0.20 U
	PCB 1260	5	10	0.20 U	0.20 U	0.20 U
	PCB 1262	5	10	0.20 U	0.20 U	0.20 U
	PCB 1268	5	10	0.20 U	0.20 U	0.20 U
	Total PCBs	5	10	0.20 U	0.20 U	0.20 U
Carbon (ug/L)	Total Organic Carbon	NS	NS	5,400	8,000	6,900

Notes:

ug/L - micrograms per liter.

J - Estimated value.

NS - No MassDEP standards exist for this compound.

U - Compound was not detected at specified quantitation level.

Values in Bold indicate the compound was detected.

Values shown in bold and shaded type exceed one or more of the listed MassDEP

Method 1 standards.

VOCs - Volatile Organic Compounds.

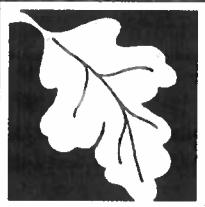
PCBs - Polychlorinated Biphenyls

(1) - MassDEP Method 1 standards for C9-C10 aromatic hydrocarbons used

(2) - MassDEP Method 1 for 1,3-Dichloropropene used

ATTACHMENT A

MASSDEP NOTICE OF ENVIRONMENTAL SAMPLING FORM (BWSC 123)



NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

BWSC 123

This Notice is Related to
Release Tracking Number

3 2849

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: 20-22 Prospect Street (Former Kiley Barrel Site)

City/Town: Somerville Zip Code: 02143

B. This notice is being provided to the following party:

1. Name: Ms. Diane M. Loadwick

2. Street Address: 11 Allen Street

City/Town: Somerville Zip Code: 02143

C. This notice is being given to inform its recipient (the party listed in Section B):

- 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
- 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
- 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 11 Allen Street

City/Town: Somerville Zip Code: 02143

2. MCP phase of work during which the sampling will be/has been conducted:

- | | |
|--|---|
| <input checked="" type="checkbox"/> Immediate Response Action | <input type="checkbox"/> Phase III Feasibility Evaluation |
| <input type="checkbox"/> Release Abatement Measure | <input type="checkbox"/> Phase IV Remedy Implementation Plan |
| <input type="checkbox"/> Utility-related Abatement Measure | <input type="checkbox"/> Phase V/Remedy Operation Status |
| <input type="checkbox"/> Phase I Initial Site Investigation | <input type="checkbox"/> Post-Class C Operation, Maintenance and Monitoring |
| <input checked="" type="checkbox"/> Phase II Comprehensive Site Assessment | <input type="checkbox"/> Other _____
(specify) |

3. Description of property where sampling will be/has been conducted:

residential commercial industrial school/playground Other _____
(specify)

4. Description of the sampling locations and types (e.g., soil, groundwater) to the extent known at the time of this notice.

-TRC conducted one round of soil gas sampling from the monitor point installed in the basement. The soil gas sample was analyzed for volatile organic compounds (VOCs);

-TRC also conducted one round of indoor air sampling from the basement. An additional air sample was collected from an outdoor upwind location. Air samples were analyzed for VOCs.

-TRC conducted one round of groundwater sampling from the monitoring wells, TRC-02, TRC-2M and TRC-03. The groundwater sample was analyzed for VOCs, polychlorinated biphenyls (PCBs), and total organic carbon (TOC).

E. Contact information related to the party providing this notice:

Contact Name: Steven Azar, City of Somerville Senior Planner

Street Address: 93 Highland Avenue

City/Town: Somerville, MA Zip Code: 02143

Telephone: (617) 625-6600 Email: SAzar@somervillema.gov

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation under the Massachusetts Contingency Plan at a property on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/dep/cleanup/oview.htm>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://mass.gov/dep/about/region/schedule.htm> if you would like to make an appointment to see these files. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

ATTACHMENT B

**LABORATORY ANALYTICAL
REPORTS**

Project Name: KILEY BARREL**Lab Number:** L1116184**Project Number:** 113338**Report Date:** 10/20/11**SAMPLE RESULTS**

Lab ID:	L1116184-01	Date Collected:	10/06/11 15:16
Client ID:	11ALLB	Date Received:	10/06/11
Sample Location:	SOMERVILLE, MA	Field Prep:	Not Specified
Matrix:	Air		
Anaytical Method:	101,TO15-SIM		
Analytical Date:	10/13/11 21:43		
Analyst:	RY		

Parameter	ppbV			ug/m3			Dilution Factor
	Results	RL	MDL	Results	RL	MDL	
MCP Volatile Organics in Air by SIM - Mansfield Lab							
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--	1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--	1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--	1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--	1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--	1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--	1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--	1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--	1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--	1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--	1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--	1
1,4-Dioxane	ND	0.100	--	ND	0.360	--	1
Acetone	2.65	1.00	--	6.29	2.38	--	1
Benzene	ND	0.100	--	ND	0.319	--	1
Bromodichloromethane	ND	0.020	--	ND	0.134	--	1
Bromoform	ND	0.020	--	ND	0.207	--	1
Bromomethane	ND	0.020	--	ND	0.078	--	1
Carbon tetrachloride	0.067	0.020	--	0.421	0.126	--	1
Chlorobenzene	ND	0.020	--	ND	0.092	--	1
Chloroform	0.031	0.020	--	0.151	0.098	--	1
cis-1,2-Dichloroethene	0.037	0.020	--	0.147	0.079	--	1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--	1
Dibromochloromethane	ND	0.020	--	ND	0.170	--	1



Project Name: KILEY BARREL

Lab Number: L1116184

Project Number: 113338

Report Date: 10/20/11

SAMPLE RESULTS

Lab ID:	L1116184-01	Date Collected:	10/06/11 15:16
Client ID:	11ALLB	Date Received:	10/06/11
Sample Location:	SOMERVILLE, MA	Field Prep:	Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
MCP Volatile Organics in Air by SIM - Mansfield Lab								
Ethylbenzene	0.110	0.020	--	0.478	0.087	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1
2-Butanone	0.310	0.200	--	0.914	0.590	--		1
4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--		1
Methylene chloride	ND	1.40	--	ND	4.86	--		1
Methyl tert butyl ether	ND	0.020	--	ND	0.072	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
p/m-Xylene	0.382	0.040	--	1.66	0.174	--		1
o-Xylene	0.133	0.020	--	0.578	0.087	--		1
Styrene	0.020	0.020	--	0.085	0.085	--		1
Tetrachloroethene	0.043	0.020	--	0.292	0.136	--		1
Toluene	0.640	0.050	--	2.41	0.188	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	110		60-140
bromochloromethane	102		60-140
chlorobenzene-d5	102		60-140

Project Name: KILEY BARREL

Lab Number: L1116184

Project Number: 113338

Report Date: 10/20/11

SAMPLE RESULTS

Lab ID:	L1116184-01	Date Collected:	10/06/11 15:16
Client ID:	11ALLB	Date Received:	10/06/11
Sample Location:	SOMERVILLE, MA	Field Prep:	Not Specified
Matrix:	Air		
Analytical Method:	96,APH		
Analytical Date:	10/13/11 21:43		
Analyst:	RY		

Quality Control Information

Sample Type:	4 Hour Composite
Sample Container Type:	Canister - 6 Liter
Sampling Flow Controller:	Mechanical
Sampling Zone:	Unknown
Sampling Flow Meter RPD of pre & post-sampling calibration check:	<=20%
Were all QA/QC procedures REQUIRED by the method followed?	Yes
Were all performance/acceptance standards for the required procedures achieved?	Yes
Were significant modifications made to the method as specified in Sect 11.1.2?	No

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbons in Air - Mansfield Lab						
1,3-Butadiene	ND		ug/m3	2.0	--	1
Methyl tert butyl ether	ND		ug/m3	2.0	--	1
Benzene	ND		ug/m3	2.0	--	1
Toluene	2.2		ug/m3	2.0	--	1
C5-C8 Aliphatics, Adjusted	ND		ug/m3	12	--	1
Ethylbenzene	ND		ug/m3	2.0	--	1
p/m-Xylene	ND		ug/m3	4.0	--	1
o-Xylene	ND		ug/m3	2.0	--	1
Naphthalene	ND		ug/m3	2.0	--	1
C9-C12 Aliphatics, Adjusted	ND		ug/m3	14	--	1
C9-C10 Aromatics Total	ND		ug/m3	10	--	1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	107		50-200
Bromochloromethane	110		50-200
Chlorobenzene-d5	98		50-200

Project Name: KILEY BARREL**Project Number:** 113338**Lab Number:** L1116184**Report Date:** 10/20/11**SAMPLE RESULTS**

Lab ID:	L1116184-02	Date Collected:	10/06/11 16:06
Client ID:	SG-1	Date Received:	10/06/11
Sample Location:	SOMERVILLE, MA	Field Prep:	Not Specified
Matrix:	Soil_Vapor		
Anaytical Method:	101,TO15-SIM		
Analytical Date:	10/13/11 22:18		
Analyst:	RY		

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
MCP Volatile Organics in Air by SIM - Mansfield Lab								
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
1,1-Dichloroethane	0.035	0.020	--	0.142	0.081	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2-Dichloroethane	0.031	0.020	--	0.125	0.081	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Acetone	8.33	1.00	--	19.8	2.38	--		1
Benzene	0.109	0.100	--	0.348	0.319	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Carbon tetrachloride	0.066	0.020	--	0.415	0.126	--		1
Chlorobenzene	ND	0.020	--	ND	0.092	--		1
Chloroform	0.035	0.020	--	0.171	0.098	--		1
cis-1,2-Dichloroethene	0.077	0.020	--	0.305	0.079	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1



Project Name: KILEY BARREL

Lab Number: L1116184

Project Number: 113338

Report Date: 10/20/11

SAMPLE RESULTS

Lab ID:	L1116184-02	Date Collected:	10/06/11 16:06
Client ID:	SG-1	Date Received:	10/06/11
Sample Location:	SOMERVILLE, MA	Field Prep:	Not Specified

Parameter	ppbV			ug/m3			Dilution Factor
	Results	RL	MDL	Results	RL	MDL	
MCP Volatile Organics in Air by SIM - Mansfield Lab							
Ethylbenzene	0.155	0.020	--	0.673	0.087	--	1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--	1
2-Butanone	0.309	0.200	--	0.911	0.590	--	1
4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--	1
Methylene chloride	ND	1.40	--	ND	4.86	--	1
Methyl tert butyl ether	ND	0.020	--	ND	0.072	--	1
Naphthalene	ND	0.050	--	ND	0.262	--	1
p/m-Xylene	0.579	0.040	--	2.51	0.174	--	1
o-Xylene	0.202	0.020	--	0.877	0.087	--	1
Styrene	0.044	0.020	--	0.187	0.085	--	1
Tetrachloroethene	0.060	0.020	--	0.407	0.136	--	1
Toluene	1.57	0.050	--	5.92	0.188	--	1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--	1
Trichloroethene	0.023	0.020	--	0.124	0.107	--	1
Vinyl chloride	ND	0.020	--	ND	0.051	--	1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	98		60-140
bromochloromethane	94		60-140
chlorobenzene-d5	95		60-140



Serial_No:10201115:18

Project Name: KILEY BARREL

Lab Number: L1116184

Project Number: 113338

Report Date: 10/20/11

SAMPLE RESULTS

Lab ID:	L1116184-02	Date Collected:	10/06/11 16:06
Client ID:	SG-1	Date Received:	10/06/11
Sample Location:	SOMERVILLE, MA	Field Prep:	Not Specified
Matrix:	Soil_Vapor		
Analytical Method:	96,APH		
Analytical Date:	10/13/11 22:18		
Analyst:	RY		

Quality Control Information

Sample Type:	200 ml/minute Composite
Sample Container Type:	Canister - 2.7 Liter
Sampling Flow Controller:	Mechanical
Sampling Zone:	Unknown
Sampling Flow Meter RPD of pre & post-sampling calibration check:	<=20%
Were all QA/QC procedures REQUIRED by the method followed?	Yes
Were all performance/acceptance standards for the required procedures achieved?	Yes
Were significant modifications made to the method as specified in Sect 11.1.2?	No

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbons in Air - Mansfield Lab						
1,3-Butadiene	ND		ug/m3	2.0	—	1
Methyl tert butyl ether	ND		ug/m3	2.0	—	1
Benzene	ND		ug/m3	2.0	—	1
Toluene	5.5		ug/m3	2.0	—	1
C5-C8 Aliphatics, Adjusted	17		ug/m3	12	—	1
Ethylbenzene	ND		ug/m3	2.0	—	1
p/m-Xylene	ND		ug/m3	4.0	—	1
o-Xylene	ND		ug/m3	2.0	—	1
Naphthalene	ND		ug/m3	2.0	—	1
C9-C12 Aliphatics, Adjusted	160		ug/m3	14	—	1
C9-C10 Aromatics Total	ND		ug/m3	10	—	1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	95		50-200
Bromochloromethane	99		50-200
Chlorobenzene-d5	92		50-200

Project Name: KILEY BARREL**Lab Number:** L1116329**Project Number:** 113338**Report Date:** 10/21/11**SAMPLE RESULTS**

Lab ID:	L1116329-01	Date Collected:	10/07/11 12:58
Client ID:	UPWIND	Date Received:	10/07/11
Sample Location:	SOMERVILLE, MA	Field Prep:	Not Specified
Matrix:	Air		
Anaytical Method:	101,TO15-SIM		
Analytical Date:	10/13/11 19:24		
Analyst:	RY		

Parameter	ppbV			ug/m3			Dilution Factor
	Results	RL	MDL	Results	RL	MDL	
MCP Volatile Organics in Air by SIM - Mansfield Lab							
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--	1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--	1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--	1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--	1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--	1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--	1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--	1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--	1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--	1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--	1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--	1
1,4-Dioxane	ND	0.100	--	ND	0.360	--	1
Acetone	2.78	1.00	--	6.60	2.38	--	1
Benzene	0.138	0.100	--	0.441	0.319	--	1
Bromodichloromethane	ND	0.020	--	ND	0.134	--	1
Bromoform	ND	0.020	--	ND	0.207	--	1
Bromomethane	ND	0.020	--	ND	0.078	--	1
Carbon tetrachloride	0.067	0.020	--	0.421	0.126	--	1
Chlorobenzene	ND	0.020	--	ND	0.092	--	1
Chloroform	ND	0.020	--	ND	0.098	--	1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--	1
Dibromochloromethane	ND	0.020	--	ND	0.170	--	1



Project Name: KILEY BARREL
Project Number: 113338

Lab Number: L1116329
Report Date: 10/21/11

SAMPLE RESULTS

Lab ID:	L1116329-01	Date Collected:	10/07/11 12:58
Client ID:	UPWIND	Date Received:	10/07/11
Sample Location:	SOMERVILLE, MA	Field Prep:	Not Specified

Parameter	ppbV			ug/m3			Dilution Factor
	Results	RL	MDL	Results	RL	MDL	Qualifier
MCP Volatile Organics in Air by SIM - Mansfield Lab							
Ethylbenzene	0.070	0.020	--	0.304	0.087	--	1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--	1
2-Butanone	ND	0.200	--	ND	0.590	--	1
4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--	1
Methylene chloride	ND	1.40	--	ND	4.86	--	1
Methyl tert butyl ether	ND	0.020	--	ND	0.072	--	1
Naphthalene	ND	0.050	--	ND	0.262	--	1
p/m-Xylene	0.200	0.040	--	0.869	0.174	--	1
o-Xylene	0.073	0.020	--	0.317	0.087	--	1
Styrene	ND	0.020	--	ND	0.085	--	1
Tetrachloroethene	0.055	0.020	--	0.373	0.136	--	1
Toluene	1.07	0.050	--	4.03	0.188	--	1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--	1
Trichloroethene	ND	0.020	--	ND	0.107	--	1
Vinyl chloride	ND	0.020	--	ND	0.051	--	1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	105		60-140
bromochloromethane	103		60-140
chlorobenzene-d5	102		60-140



Project Name: KILEY BARREL
Project Number: 113338

Lab Number: L1116329
Report Date: 10/21/11

SAMPLE RESULTS

Lab ID:	L1116329-01	Date Collected:	10/07/11 12:58
Client ID:	UPWIND	Date Received:	10/07/11
Sample Location:	SOMERVILLE, MA	Field Prep:	Not Specified
Matrix:	Air		
Analytical Method:	96,APH		
Analytical Date:	10/13/11 19:24		
Analyst:	RY		

Quality Control Information

Sample Type:	4 Hour Composite
Sample Container Type:	Canister - 6 Liter
Sampling Flow Controller:	Mechanical
Sampling Zone:	Unknown
Sampling Flow Meter RPD of pre & post-sampling calibration check:	<=20%
Were all QA/QC procedures REQUIRED by the method followed?	Yes
Were all performance/acceptance standards for the required procedures achieved?	Yes
Were significant modifications made to the method as specified in Sect 11.1.2?	No

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbons in Air - Mansfield Lab						
1,3-Butadiene	ND		ug/m3	2.0	--	1
Methyl tert butyl ether	ND		ug/m3	2.0	--	1
Benzene	ND		ug/m3	2.0	--	1
Toluene	3.9		ug/m3	2.0	--	1
C5-C8 Aliphatics, Adjusted	ND		ug/m3	12	--	1
Ethylbenzene	ND		ug/m3	2.0	--	1
p/m-Xylene	ND		ug/m3	4.0	--	1
o-Xylene	ND		ug/m3	2.0	--	1
Naphthalene	ND		ug/m3	2.0	--	1
C9-C12 Aliphatics, Adjusted	ND		ug/m3	14	--	1
C9-C10 Aromatics Total	ND		ug/m3	10	--	1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	102		50-200
Bromochloromethane	103		50-200
Chlorobenzene-d5	99		50-200

Project Name: KILEY BARREL

Lab Number: L1116329

Project Number: 113338

Report Date: 10/21/11

SAMPLE RESULTS

Lab ID:	L1116329-01	Date Collected:	10/07/11 12:58
Client ID:	UPWIND	Date Received:	10/07/11
Sample Location:	SOMERVILLE, MA	Field Prep:	Not Specified
Matrix:	Air		
Anaytical Method:	101,TO15-SIM		
Analytical Date:	10/13/11 19:24		
Analyst:	RY		

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
MCP Volatile Organics in Air by SIM - Mansfield Lab								
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Acetone	2.78	1.00	--	6.60	2.38	--		1
Benzene	0.138	0.100	--	0.441	0.319	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Carbon tetrachloride	0.067	0.020	--	0.421	0.126	--		1
Chlorobenzene	ND	0.020	--	ND	0.092	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1



Project Name: KILEY BARREL

Lab Number: L1116329

Project Number: 113338

Report Date: 10/21/11

SAMPLE RESULTS

Lab ID:	L1116329-01	Date Collected:	10/07/11 12:58
Client ID:	UPWIND	Date Received:	10/07/11
Sample Location:	SOMERVILLE, MA	Field Prep:	Not Specified

Parameter	ppbV			ug/m3			Dilution Factor
	Results	RL	MDL	Results	RL	MDL	Qualifier
MCP Volatile Organics in Air by SIM - Mansfield Lab							
Ethylbenzene	0.070	0.020	--	0.304	0.087	--	1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--	1
2-Butanone	ND	0.200	--	ND	0.590	--	1
4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--	1
Methylene chloride	ND	1.40	--	ND	4.86	--	1
Methyl tert butyl ether	ND	0.020	--	ND	0.072	--	1
Naphthalene	ND	0.050	--	ND	0.262	--	1
p/m-Xylene	0.200	0.040	--	0.869	0.174	--	1
o-Xylene	0.073	0.020	--	0.317	0.087	--	1
Styrene	ND	0.020	--	ND	0.085	--	1
Tetrachloroethene	0.055	0.020	--	0.373	0.136	--	1
Toluene	1.07	0.050	--	4.03	0.188	--	1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--	1
Trichloroethene	ND	0.020	--	ND	0.107	--	1
Vinyl chloride	ND	0.020	--	ND	0.051	--	1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	105		60-140
bromochloromethane	103		60-140
chlorobenzene-d5	102		60-140



Project Name: KILEY BARREL

Project Number: 113338

Lab Number: L1116329

Report Date: 10/21/11

SAMPLE RESULTS

Lab ID:	L1116329-01	Date Collected:	10/07/11 12:58
Client ID:	UPWIND	Date Received:	10/07/11
Sample Location:	SOMERVILLE, MA	Field Prep:	Not Specified
Matrix:	Air		
Analytical Method:	96,APH		
Analytical Date:	10/13/11 19:24		
Analyst:	RY		

Quality Control Information

Sample Type:	4 Hour Composite
Sample Container Type:	Canister - 6 Liter
Sampling Flow Controller:	Mechanical
Sampling Zone:	Unknown
Sampling Flow Meter RPD of pre & post-sampling calibration check:	<=20%
Were all QA/QC procedures REQUIRED by the method followed?	Yes
Were all performance/acceptance standards for the required procedures achieved?	Yes
Were significant modifications made to the method as specified in Sect 11.1.2?	No

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbons in Air - Mansfield Lab						
1,3-Butadiene	ND		ug/m3	2.0	--	1
Methyl tert butyl ether	ND		ug/m3	2.0	--	1
Benzene	ND		ug/m3	2.0	--	1
Toluene	3.9		ug/m3	2.0	--	1
C5-C8 Aliphatics, Adjusted	ND		ug/m3	12	--	1
Ethylbenzene	ND		ug/m3	2.0	--	1
p/m-Xylene	ND		ug/m3	4.0	--	1
o-Xylene	ND		ug/m3	2.0	--	1
Naphthalene	ND		ug/m3	2.0	--	1
C9-C12 Aliphatics, Adjusted	ND		ug/m3	14	--	1
C9-C10 Aromatics Total	ND		ug/m3	10	--	1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	102		50-200
Bromochloromethane	103		50-200
Chlorobenzene-d5	99		50-200

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Somerville, Ma (Kiley Barrel)

Sample Description:

Work Order: 11J0208

Date Received: 10/6/2011

Field Sample #: TRC-2

Sampled: 10/6/2011 14:35

Sample ID: 11J0208-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	µg/L	1	RL-07	SW-846 8260C	10/7/11	10/7/11 17:22	TJR
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1	V-05	SW-846 8260C	10/7/11	10/7/11 17:22	TJR
Benzene	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:22	TJR
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:22	TJR
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:22	TJR
Bromodichloromethane	ND	5.0	µg/L	1	RL-07	SW-846 8260C	10/7/11	10/7/11 17:22	TJR
Bromoform	ND	5.0	µg/L	1	RL-07	SW-846 8260C	10/7/11	10/7/11 17:22	TJR
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:22	TJR
2-Butanone (MEK)	ND	10	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:22	TJR
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:22	TJR
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:22	TJR
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:22	TJR
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:22	TJR
Carbon Disulfide	ND	10	µg/L	1	RL-07	SW-846 8260C	10/7/11	10/7/11 17:22	TJR
Carbon Tetrachloride	ND	5.0	µg/L	1	RL-07	SW-846 8260C	10/7/11	10/7/11 17:22	TJR
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:22	TJR
Chlorodibromomethane	ND	5.0	µg/L	1	RL-07	SW-846 8260C	10/7/11	10/7/11 17:22	TJR
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:22	TJR
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:22	TJR
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:22	TJR
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:22	TJR
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:22	TJR
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1	RL-07, V-05	SW-846 8260C	10/7/11	10/7/11 17:22	TJR
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:22	TJR
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:22	TJR
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:22	TJR
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:22	TJR
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:22	TJR
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:22	TJR
1,1-Dichloroethane	12	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:22	TJR
1,2-Dichloroethane	5.4	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:22	TJR
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:22	TJR
cis-1,2-Dichloroethylene	78	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:22	TJR
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:22	TJR
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:22	TJR
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:22	TJR
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:22	TJR
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:22	TJR
cis-1,3-Dichloropropene	ND	5.0	µg/L	1	RL-07	SW-846 8260C	10/7/11	10/7/11 17:22	TJR
trans-1,3-Dichloropropene	ND	5.0	µg/L	1	RL-07, V-05	SW-846 8260C	10/7/11	10/7/11 17:22	TJR
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:22	TJR
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:22	TJR
1,4-Dioxane	ND	50	µg/L	1	R-05, V-16	SW-846 8260C	10/7/11	10/7/11 17:22	TJR

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Somerville, Ma (Kiley Barrel)

Sample Description:

Work Order: 11J0208

Date Received: 10/6/2011

Field Sample #: TRC-2

Sampled: 10/6/2011 14:35

Sample ID: 11J0208-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:22	TJR
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:22	TJR
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:22	TJR
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:22	TJR
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:22	TJR
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:22	TJR
Methylene Chloride	ND	5.0	µg/L	1	RL-07	SW-846 8260C	10/7/11	10/7/11 17:22	TJR
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:22	TJR
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:22	TJR
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:22	TJR
Styrene	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:22	TJR
1,1,1,2-Tetrachloroethane	ND	5.0	µg/L	1	RL-07	SW-846 8260C	10/7/11	10/7/11 17:22	TJR
1,1,2,2-Tetrachloroethane	ND	5.0	µg/L	1	RL-07	SW-846 8260C	10/7/11	10/7/11 17:22	TJR
Tetrachloroethylene	2.3	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:22	TJR
Tetrahydrofuran	ND	2.0	µg/L	1	V-05	SW-846 8260C	10/7/11	10/7/11 17:22	TJR
Toluene	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:22	TJR
1,2,3-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:22	TJR
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:22	TJR
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:22	TJR
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:22	TJR
Trichloroethylene	4.1	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:22	TJR
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:22	TJR
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:22	TJR
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:22	TJR
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:22	TJR
Vinyl Chloride	9.7	2.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:22	TJR
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:22	TJR
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:22	TJR
Surrogates	% Recovery	Recovery Limits		Flag					
1,2-Dichloroethane-d4	93.1	70-130							10/7/11 17:22
Toluene-d8	98.7	70-130							10/7/11 17:22
4-Bromofluorobenzene	94.7	70-130							10/7/11 17:22

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Somerville, Ma (Kiley Barrel)

Sample Description:

Work Order: 11J0208

Date Received: 10/6/2011

Field Sample #: TRC-2

Sampled: 10/6/2011 14:35

Sample ID: 11J0208-03

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	10/7/11	10/10/11 18:52	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	10/7/11	10/10/11 18:52	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	10/7/11	10/10/11 18:52	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	10/7/11	10/10/11 18:52	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	10/7/11	10/10/11 18:52	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	10/7/11	10/10/11 18:52	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	10/7/11	10/10/11 18:52	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	10/7/11	10/10/11 18:52	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	10/7/11	10/10/11 18:52	JMB
Surrogates		% Recovery	Recovery Limits	Flag					
Decachlorobiphenyl [1]		80.8	30-150						
Decachlorobiphenyl [2]		81.4	30-150						
Tetrachloro-m-xylene [1]		82.4	30-150						
Tetrachloro-m-xylene [2]		80.3	30-150						



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Somerville, Ma (Kiley Barrel)

Sample Description:

Work Order: 11J0208

Date Received: 10/6/2011

Field Sample #: TRC-2

Sampled: 10/6/2011 14:35

Sample ID: 11J0208-03

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Organic Carbon	5.4	1.0	mg/L	1	R-05	SM 5310B	10/10/11	10/10/11 9:20	LL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Somerville, Ma (Kiley Barrel)

Sample Description:

Work Order: 1IJ0208

Date Received: 10/6/2011

Field Sample #: TRC-2M

Sampled: 10/6/2011 14:30

Sample ID: 1IJ0208-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	µg/L	1	RL-07	SW-846 8260C	10/7/11	10/7/11 17:54	TJR
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1	V-05	SW-846 8260C	10/7/11	10/7/11 17:54	TJR
Benzene	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:54	TJR
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:54	TJR
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:54	TJR
Bromodichloromethane	ND	5.0	µg/L	1	RL-07	SW-846 8260C	10/7/11	10/7/11 17:54	TJR
Bromoform	ND	5.0	µg/L	1	RL-07	SW-846 8260C	10/7/11	10/7/11 17:54	TJR
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:54	TJR
2-Butanone (MEK)	ND	10	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:54	TJR
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:54	TJR
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:54	TJR
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:54	TJR
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:54	TJR
Carbon Disulfide	ND	10	µg/L	1	RL-07	SW-846 8260C	10/7/11	10/7/11 17:54	TJR
Carbon Tetrachloride	ND	5.0	µg/L	1	RL-07	SW-846 8260C	10/7/11	10/7/11 17:54	TJR
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:54	TJR
Chlorodibromomethane	ND	5.0	µg/L	1	RL-07	SW-846 8260C	10/7/11	10/7/11 17:54	TJR
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:54	TJR
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:54	TJR
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:54	TJR
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:54	TJR
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:54	TJR
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1	RL-07, V-05	SW-846 8260C	10/7/11	10/7/11 17:54	TJR
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:54	TJR
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:54	TJR
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:54	TJR
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:54	TJR
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:54	TJR
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:54	TJR
1,1-Dichloroethane	1.0	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:54	TJR
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:54	TJR
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:54	TJR
cis-1,2-Dichloroethylene	3.1	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:54	TJR
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:54	TJR
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:54	TJR
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:54	TJR
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:54	TJR
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:54	TJR
cis-1,3-Dichloropropene	ND	5.0	µg/L	1	RL-07	SW-846 8260C	10/7/11	10/7/11 17:54	TJR
trans-1,3-Dichloropropene	ND	5.0	µg/L	1	RL-07, V-05	SW-846 8260C	10/7/11	10/7/11 17:54	TJR
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:54	TJR
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:54	TJR
1,4-Dioxane	ND	50	µg/L	1	R-05, V-16	SW-846 8260C	10/7/11	10/7/11 17:54	TJR

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Somerville, Ma (Kiley Barrel)

Sample Description:

Work Order: 11J0208

Date Received: 10/6/2011

Field Sample #: TRC-2M

Sampled: 10/6/2011 14:30

Sample ID: 11J0208-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:54	TJR
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:54	TJR
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:54	TJR
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:54	TJR
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:54	TJR
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:54	TJR
Methylene Chloride	ND	5.0	µg/L	1	RL-07	SW-846 8260C	10/7/11	10/7/11 17:54	TJR
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:54	TJR
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:54	TJR
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:54	TJR
Styrene	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:54	TJR
1,1,1,2-Tetrachloroethane	ND	5.0	µg/L	1	RL-07	SW-846 8260C	10/7/11	10/7/11 17:54	TJR
1,1,2,2-Tetrachloroethane	ND	5.0	µg/L	1	RL-07	SW-846 8260C	10/7/11	10/7/11 17:54	TJR
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:54	TJR
Tetrahydrofuran	ND	2.0	µg/L	1	V-05	SW-846 8260C	10/7/11	10/7/11 17:54	TJR
Toluene	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:54	TJR
1,2,3-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:54	TJR
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:54	TJR
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:54	TJR
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:54	TJR
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:54	TJR
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:54	TJR
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:54	TJR
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:54	TJR
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:54	TJR
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:54	TJR
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:54	TJR
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	10/7/11	10/7/11 17:54	TJR

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	92.3	70-130	10/7/11 17:54
Toluene-d8	97.2	70-130	10/7/11 17:54
4-Bromofluorobenzene	94.8	70-130	10/7/11 17:54

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Somerville, Ma (Kiley Barrel)

Sample Description:

Work Order: 11J0208

Date Received: 10/6/2011

Field Sample #: TRC-2M

Sampled: 10/6/2011 14:30

Sample ID: 11J0208-04

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	10/7/11	10/10/11 19:06	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	10/7/11	10/10/11 19:06	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	10/7/11	10/10/11 19:06	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	10/7/11	10/10/11 19:06	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	10/7/11	10/10/11 19:06	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	10/7/11	10/10/11 19:06	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	10/7/11	10/10/11 19:06	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	10/7/11	10/10/11 19:06	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	10/7/11	10/10/11 19:06	JMB
Surrogates		% Recovery	Recovery Limits	Flag					
Decachlorobiphenyl [1]	53.8	30-150						10/10/11 19:06	
Decachlorobiphenyl [2]	54.8	30-150						10/10/11 19:06	
Tetrachloro-m-xylene [1]	91.1	30-150						10/10/11 19:06	
Tetrachloro-m-xylene [2]	88.5	30-150						10/10/11 19:06	



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Somerville, Ma (Kiley Barrel)

Sample Description:

Work Order: 11J0208

Date Received: 10/6/2011

Field Sample #: TRC-2M

Sampled: 10/6/2011 14:30

Sample ID: 11J0208-04

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Organic Carbon	8.0	1.0	mg/L	1	R-05	SM 5310B	10/10/11	10/10/11 9:20	LL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Kiley Barrel Somerville, MA

Sample Description:

Work Order: 11J0249

Date Received: 10/7/2011

Field Sample #: TRC-3

Sampled: 10/7/2011 14:50

Sample ID: 11J0249-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	µg/L	1		SW-846 8260C	10/10/11	10/11/11 8:35	TJR
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	10/10/11	10/11/11 8:35	TJR
Benzene	ND	1.0	µg/L	1		SW-846 8260C	10/10/11	10/11/11 8:35	TJR
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/10/11	10/11/11 8:35	TJR
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	10/10/11	10/11/11 8:35	TJR
Bromodichloromethane	ND	1.0	µg/L	1		SW-846 8260C	10/10/11	10/11/11 8:35	TJR
Bromoform	ND	5.0	µg/L	1	RL-07	SW-846 8260C	10/10/11	10/11/11 8:35	TJR
Bromomethane	ND	2.0	µg/L	1	R-05	SW-846 8260C	10/10/11	10/11/11 8:35	TJR
2-Butanone (MEK)	ND	10	µg/L	1		SW-846 8260C	10/10/11	10/11/11 8:35	TJR
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/10/11	10/11/11 8:35	TJR
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/10/11	10/11/11 8:35	TJR
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/10/11	10/11/11 8:35	TJR
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	10/10/11	10/11/11 8:35	TJR
Carbon Disulfide	ND	10	µg/L	1	RL-07	SW-846 8260C	10/10/11	10/11/11 8:35	TJR
Carbon Tetrachloride	ND	2.0	µg/L	1		SW-846 8260C	10/10/11	10/11/11 8:35	TJR
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/10/11	10/11/11 8:35	TJR
Chlorodibromomethane	ND	5.0	µg/L	1	RL-07	SW-846 8260C	10/10/11	10/11/11 8:35	TJR
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	10/10/11	10/11/11 8:35	TJR
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	10/10/11	10/11/11 8:35	TJR
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	10/10/11	10/11/11 8:35	TJR
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	10/10/11	10/11/11 8:35	TJR
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	10/10/11	10/11/11 8:35	TJR
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1	RL-07	SW-846 8260C	10/10/11	10/11/11 8:35	TJR
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	10/10/11	10/11/11 8:35	TJR
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	10/10/11	10/11/11 8:35	TJR
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/10/11	10/11/11 8:35	TJR
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/10/11	10/11/11 8:35	TJR
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/10/11	10/11/11 8:35	TJR
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	10/10/11	10/11/11 8:35	TJR
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	10/10/11	10/11/11 8:35	TJR
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	10/10/11	10/11/11 8:35	TJR
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	10/10/11	10/11/11 8:35	TJR
cis-1,2-Dichloroethylene	2.1	1.0	µg/L	1		SW-846 8260C	10/10/11	10/11/11 8:35	TJR
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	10/10/11	10/11/11 8:35	TJR
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	10/10/11	10/11/11 8:35	TJR
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	10/10/11	10/11/11 8:35	TJR
2,2-Dichloropropane	ND	1.0	µg/L	1	V-05	SW-846 8260C	10/10/11	10/11/11 8:35	TJR
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	10/10/11	10/11/11 8:35	TJR
cis-1,3-Dichloropropene	ND	5.0	µg/L	1	RL-07	SW-846 8260C	10/10/11	10/11/11 8:35	TJR
trans-1,3-Dichloropropene	ND	5.0	µg/L	1	RL-07, V-05	SW-846 8260C	10/10/11	10/11/11 8:35	TJR
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	10/10/11	10/11/11 8:35	TJR
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	10/10/11	10/11/11 8:35	TJR
1,4-Dioxane	ND	50	µg/L	1	R-05, V-16	SW-846 8260C	10/10/11	10/11/11 8:35	TJR

39 Spruce Street • East Longmeadow, MA 01028 • FAX 413/525-6405 • TEL. 413/525-2332

Project Location: Kiley Barrel Somerville, MA

Sample Description:

Work Order: 11J0249

Date Received: 10/7/2011

Field Sample #: TRC-3

Sampled: 10/7/2011 14:50

Sample ID: 11J0249-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/10/11	10/11/11 8:35	TJR
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	10/10/11	10/11/11 8:35	TJR
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	10/10/11	10/11/11 8:35	TJR
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	10/10/11	10/11/11 8:35	TJR
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	10/10/11	10/11/11 8:35	TJR
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	10/10/11	10/11/11 8:35	TJR
Methylene Chloride	ND	5.0	µg/L	1	RL-07	SW-846 8260C	10/10/11	10/11/11 8:35	TJR
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	10/10/11	10/11/11 8:35	TJR
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	10/10/11	10/11/11 8:35	TJR
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/10/11	10/11/11 8:35	TJR
Styrene	ND	1.0	µg/L	1		SW-846 8260C	10/10/11	10/11/11 8:35	TJR
1,1,1,2-Tetrachloroethane	ND	5.0	µg/L	1	RL-07	SW-846 8260C	10/10/11	10/11/11 8:35	TJR
1,1,2,2-Tetrachloroethane	ND	5.0	µg/L	1	RL-07	SW-846 8260C	10/10/11	10/11/11 8:35	TJR
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	10/10/11	10/11/11 8:35	TJR
Tetrahydrofuran	ND	2.0	µg/L	1		SW-846 8260C	10/10/11	10/11/11 8:35	TJR
Toluene	ND	1.0	µg/L	1		SW-846 8260C	10/10/11	10/11/11 8:35	TJR
1,2,3-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	10/10/11	10/11/11 8:35	TJR
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/10/11	10/11/11 8:35	TJR
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	10/10/11	10/11/11 8:35	TJR
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	10/10/11	10/11/11 8:35	TJR
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	10/10/11	10/11/11 8:35	TJR
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	10/10/11	10/11/11 8:35	TJR
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	10/10/11	10/11/11 8:35	TJR
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/10/11	10/11/11 8:35	TJR
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/10/11	10/11/11 8:35	TJR
Vinyl Chloride	ND	2.0	µg/L	1	L-04	SW-846 8260C	10/10/11	10/11/11 8:35	TJR
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	10/10/11	10/11/11 8:35	TJR
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	10/10/11	10/11/11 8:35	TJR

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	88.2	70-130		10/11/11 8:35
Toluene-d8	97.8	70-130		10/11/11 8:35
4-Bromofluorobenzene	95.0	70-130		10/11/11 8:35

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Project Location: Kiley Barrel Somerville, MA

Sample Description:

Work Order: 11J0249

Date Received: 10/7/2011

Field Sample #: TRC-3

Sampled: 10/7/2011 14:50

Sample ID: 11J0249-02

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	10/10/11	10/10/11 22:35	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	10/10/11	10/10/11 22:35	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	10/10/11	10/10/11 22:35	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	10/10/11	10/10/11 22:35	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	10/10/11	10/10/11 22:35	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	10/10/11	10/10/11 22:35	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	10/10/11	10/10/11 22:35	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	10/10/11	10/10/11 22:35	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	10/10/11	10/10/11 22:35	JMB
Surrogates		% Recovery	Recovery Limits	Flag					
Decachlorobiphenyl [1]	93.7	30-150					10/10/11	22:35	
Decachlorobiphenyl [2]	94.5	30-150					10/10/11	22:35	
Tetrachloro-m-xylene [1]	96.7	30-150					10/10/11	22:35	
Tetrachloro-m-xylene [2]	93.5	30-150					10/10/11	22:35	



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Project Location: Kiley Barrel Somerville, MA

Sample Description:

Work Order: 11J0249

Date Received: 10/7/2011

Field Sample #: TRC-3

Sampled: 10/7/2011 14:50

Sample ID: 11J0249-02

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Organic Carbon	6.9	1.0	mg/L	1	R-05	SM 5310B	10/10/11	10/10/11 9:20	LL



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TRC Reference Number 113338.4750.0000

November 17, 2011

Zack Wang
ZMW Properties
PO Box 43245
Somerville, MA 02143

Subject: Results of Environmental Sampling on Your Property
Former Kiley Barrel Site, Somerville, Massachusetts
Release Tracking Number (RTN) 3-2849 (previously RTN 3-28464)

Dear Mr. Wang,

On behalf of the City of Somerville, TRC Environmental Corporation (TRC) conducted environmental sampling at 5-7 Allen Street in Somerville, Massachusetts to investigate the extent of a release that occurred at the Former Kiley Barrel Site. Per regulations set forth in the Massachusetts Contingency Plan (MCP) 310 CMR 40.1403(10), TRC is providing to you the results of soil gas, indoor air, and groundwater sampling conducted at your property within 30 days of receiving the analytical results from the laboratory on October 20, 2011. For convenience, TRC has prepared summary tables for the sampling activities data (see Tables 1 to 3). The Massachusetts Department of Environmental Protection (MassDEP) Notice form is provided in Attachment A. Copies of the laboratory analytical reports are provided in Attachment B.

An indoor air sample at your property was collected on October 7, 2011 from the basement (sample name: 5 ALL B). Because vapors potentially migrating from the site would travel underground, impacts from the site would affect the basement air quality to a greater extent than the first floor air quality. Indoor air quality at your property can also be affected by off-gassing from building materials and furnishings, indoor use of chemicals (e.g., cleaning products), and storage of power equipment. An outdoor air sample (sample name: UPWIND) was also collected at the same time to determine air quality in the area from outdoor sources (e.g., vehicular traffic) during the sampling. These results are displayed in Table 1.

A soil gas sample (SG-3) was collected from beneath your property on October 7, 2011 to measure the vapors potentially migrating from the site to your property. These results are displayed in Table 2. On the attached summary tables, the indoor air, outdoor air and soil gas sample results are compared to health-based screening criteria established to determine whether further evaluation of the data are indicated.

Groundwater samples were collected at your property on October 5, 2011 from monitoring well TRC-07. These results are displayed in Table 3. No compounds were detected.

The compounds detected in indoor air during the October 2011 sampling round were similar to previous rounds and were generally detected at similar concentrations. TRC conducted a human health risk characterization using data collected in January 2010 and concluded that there was no Imminent Hazard (as defined by the MCP) associated with those sample results. The January 2010 sample data were further evaluated in the Supplemental Phase II Comprehensive Site Assessment (CSA) Report, submitted to the MassDEP in Spring 2010. The risk characterization, completed as part of the Supplemental Phase II CSA Report, concluded that exposure to compounds in indoor air, potentially present as a result of vapors migrating from the Site, was associated with a condition of No Significant Risk (as defined by the MCP). TRC reviewed the October 2011 data and concluded that the slight increase in the basement air naphthalene concentration does not affect the conclusion of No Significant Risk for indoor air at your property.

Consistent with previous gas samples collected in September 2009, January 2010, and April 2011, vapors were detected in the soil gas beneath your home. However, none of the compounds were detected at concentrations greater than their soil gas screening criteria. The concentrations of two compounds in indoor air were greater than the indoor air screening criteria, but these compounds were detected below the screening criteria for soil gas. As previously stated, indoor air quality can be affected by many sources, including storage of dry-cleaned clothing, the use of cleaning products and room deodorizers, and the storage of fuel (e.g., gasoline or heating oil).

Submittals related to this release may be viewed at the MassDEP web site as follows.

http://public.dep.state.ma.us/wsc_viewer/main.aspx

To view information related to this release, enter the RTN "3-2849" in the space provided. Previous reports generated for these activities can be viewed by entering the RTN "3-28464" on the MassDEP website. RTN 3-28464 was recently linked to the primary RTN for the Kiley Barrel Site, 3-2849.

5-7 Allen Street
November 17, 2011

TRC RN 113338.4750.0000
Page 3

If you have any questions, please feel free to contact me at (978) 656-3612.

Sincerely,

TRC Environmental Corporation



Dennis G. Tuttle
Licensed Site Professional

Enclosures

- Table 1. Summary of Analytical Results for Indoor Air Samples - October 2011
- Table 2. Summary of Analytical Results for Soil Gas Samples - October 2011
- Table 3. Summary of Analytical Results for Groundwater Samples - October 2011
- Attachment A. MassDEP Notice of Environmental Sampling Form (BWSC 123)
- Attachment B. Laboratory Analytical

cc: N. Scott Buchanan, TRC
Mr. Steven Azar, City of Somerville
Mr. Andrew Clark, MassDEP



Table 1. Summary of Analytical Results for Indoor Air Samples - October 2011
Kiley Barrel - 5-7 Allen Street
Somerville, Massachusetts

Analysis	Analyte	Sample ID: Sample Date:	5 ALL B	UPWIND
			Indoor Air Action Limit*	10/7/2011
TO-15 (ug/m ³)	1,1,1-Trichloroethane	3.0	0.109 U	0.109 U
	1,1,2,2-Tetrachloroethane	0.041	0.137 U	0.137 U
	1,1,2-Trichloroethane	0.15	0.109 U	0.109 U
	1,1-Dichloroethane	0.8	0.081 U	0.081 U
	1,1-Dichloroethene	0.8	0.079 U	0.079 U
	1,2,4-Trichlorobenzene	3.4	0.371 U	0.371 U
	1,2-Dibromoethane	0.011	0.154 U	0.154 U
	1,2-Dichlorobenzene	0.72	0.120 U	0.120 U
	1,2-Dichloroethane	0.090	0.081 U	0.081 U
	1,2-Dichloropropane	0.13	0.092 U	0.092 U
	1,3-Dichlorobenzene	0.60	0.120 U	0.120 U
	1,4-Dichlorobenzene	0.5	1.23	0.120 U
	1,4-Dioxane	0.59	0.360 U	0.360 U
	Acetone	91	8.50	6.60
	Benzene	2.3	0.406	0.441
	Bromodichloromethane	0.14	0.134 U	0.134 U
	Bromoform	2.2	0.207 U	0.207 U
	Bromomethane	0.60	0.078 U	0.078 U
	Carbon tetrachloride	0.54	0.415	0.421
	Chlorobenzene	2.3	0.092 U	0.092 U
	Chloroform	1.9	0.112	0.098 U
	cis-1,2-Dichloroethene	0.8	0.079 U	0.079 U
	cis-1,3-Dichloropropene	0.60	0.091 U	0.091 U
	Dibromochloromethane	0.10	0.170 U	0.170 U
	Ethylbenzene	7.4	0.378	0.304
	Hexachlorobutadiene	0.11	0.533 U	0.533 U
	2-Butanone	12	0.938	0.590 U
	4-Methyl-2-pentanone	2.2	0.820 U	0.820 U
	Methylene chloride	5.0	4.86 U	4.86 U
	Methyl tert butyl ether	39	0.072 U	0.072 U
	Naphthalene	0.61	0.986	0.262 U
	p/m-Xylene	20	1.16	0.869
	o-Xylene	20	0.443	0.317
	Styrene	1.4	0.162	0.085 U
	Tetrachloroethene	1.4	0.339	0.373
	Toluene	54	3.10	4.03
	trans-1,2-Dichloroethene	0.80	0.079 U	0.079 U
	trans-1,3-Dichloropropene	0.60	0.091 U	0.091 U
	Trichloroethene	0.80	0.107 U	0.107 U
	Vinyl chloride	0.27	0.051 U	0.051 U
	1,2,4-Trimethylbenzene	10 ⁽²⁾	NA	NA
	Benzyl chloride	NS	NA	NA
	1,3-Butadiene	NS	NA	NA
	Vinyl acetate	NS	NA	NA
	Tetrahydrofuran	NS	NA	NA
	n-Hexane	58 ⁽¹⁾	NA	NA
	Cyclohexane	58 ⁽¹⁾	NA	NA
	Propylene	NS	NA	NA
	Xylenes (total)	20	NA	NA
	Ethyl Acetate	NS	NA	NA
	Heptane	58 ⁽¹⁾	NA	NA
	2-Hexanone	NS	NA	NA
	4-Ethyltoluene	10 ⁽²⁾	NA	NA
	Ethanol	NS	NA	NA
	Isopropanol	NS	NA	NA
	Chloromethane	NS	NA	NA
	Chloroethane	NS	NA	NA
	Carbon disulfide	NS	NA	NA

Table 1. Summary of Analytical Results for Indoor Air Samples - October 2011
Kiley Barrel - 5-7 Allen Street
Somerville, Massachusetts

Analysis	Analyte	Sample ID:	5 ALL B	UPWIND	
		Sample Date:	10/7/2011	10/7/2011	
		Indoor Air Action Limit*			
	Trichlorofluoromethane	NS	NA	NA	
	Dichlorodifluoromethane	NS	NA	NA	
	Freon-113	NS	NA	NA	
	Freon-114	NS	NA	NA	
APH (ug/m ³)	1,3-Butadiene	NS	2.00 U	2.00 U	
	Methyl tort butyl ether	39	2.00 U	2.00 U	
	Benzene	2.3	2.00 U	2.00 U	
	Toluene	54	3.10	3.90	
	C5-C8 Aliphatics	58	12.0 U	12.0 U	
	Ethylbenzene	7.4	2.00 U	2.00 U	
	p/m-Xylene	20	4.00 U	4.00 U	
	o-Xylene	20	2.00 U	2.00 U	
	Naphthalene	0.61	2.00 U	2.00 U	
	C9-C12 Aliphatics	68	37	14.0 U	
	C9-C10 Aromatics**	10	10.0 U	10.0 U	

Notes:

ug/m³ - micrograms per cubic meters.

J - Estimated value; detected below quantitation limit.

NA - Sample not analyzed for the listed analyte.

NS - No MassDEP standards exist for this compound.

U - Compound was not detected at specified quantitation limit.

Values in Bold indicate the compound was detected.

Values shown in Bold and shaded type exceed the listed criteria.

APH - Air-Phase Petroleum Hydrocarbons.

TO - Toxic organics.

* - MassDEP, Indoor Air Residential Threshold Values (IATV), Vapor Intrusion Guidance

** - C9-C10 Aromatics (Total) for samples collected on 10/7/2011.

- Interim Draft, December 2010.

(1) - IATV for C5-C8 aliphatics used.

(2) - IATV for C9-C10 aromatics used.

Table 2. Summary of Analytical Results for Soil Gas Samples - October 2011
Kiley Barrel - 5-7 Allen Street
Somerville, Massachusetts

Analysis	Analyte	Sample ID:	SG-3	
		Sample Location:	5-7 Allen St.	
		Sample Date:	10/7/2011	
		Screening Values*		
TO-15 (ug/m3)	1,1,1-Trichloroethane	150	0.280	U
	1,1,2,2-Tetrachloroethane	2.05	0.352	U
	1,1,2-Trichloroethane	7.5	0.280	U
	1,1-Dichloroethane	40	0.208	U
	1,1-Dichloroethene	40	0.203	U
	1,2,4-Trichlorobenzene	170	0.950	U
	1,2-Dibromoethane	0.55	0.394	U
	1,2-Dichlorobenzene	36	0.308	U
	1,2-Dichloroethane	4.5	0.208	U
	1,2-Dichloropropane	6.5	0.237	U
	1,3-Dichlorobenzene	30	0.308	U
	1,4-Dichlorobenzene	25	3.42	
	1,4-Dioxane	29.5	0.922	U
	Acetone	4,550	81	
	Benzene	115	11.3	
	Bromodichloromethane	7	0.344	U
	Bromoform	110	0.530	U
	Bromomethane	30	0.199	U
	Carbon tetrachloride	27	0.387	
	Chlorobenzene	115	0.236	U
	Chloroform	95	0.250	U
	cis-1,2-Dichloroethene	40	0.203	U
	cis-1,3-Dichloropropene	30	0.233	U
	Dibromochloromethane	5	0.437	U
	Ethylbenzene	370	1.85	
	Hexachlorobutadiene	5.5	1.36	U
	2-Butanone	600	7.43	
	4-Methyl-2-pentanone	110	2.10	U
	Methylene chloride	250	12.5	U
	Methyl tert butyl ether	1,950	1.57	
	Naphthalene	30.5	0.980	
	p/m-Xylene	1,000	3.96	
	o-Xylene	1,000	1.23	
	Styrene	70	3.68	
	Tetrachloroethene	70	0.348	U
	Toluene	2,700	8.40	
	trans-1,2-Dichloroethene	40	0.203	U
	trans-1,3-Dichloropropene	30	0.233	U
	Trichloroethene	40	1.47	
	Vinyl chloride	13.5	0.131	U
	1,2,4-Trimethylbenzene	500 ⁽²⁾	NA	
	Benzyl chloride	NS	NA	
	1,3-Butadiene	NS	NA	
	Vinyl acetate	NS	NA	

Table 2. Summary of Analytical Results for Soil Gas Samples - October 2011
Kiley Barrel - 5-7 Allen Street
Somerville, Massachusetts

Analysis	Analyte	Sample ID:	SG-3
		Sample Location:	5-7 Allen St.
		Sample Date:	10/7/2011
		Screening Values*	
	1,3,5-Trimethylbenzene	500 ⁽²⁾	NA
	Tetrahydrofuran	NS	NA
	n-Hexane	2,900 ⁽¹⁾	NA
	Cyclohexane	2,900 ⁽¹⁾	NA
	Propylene	NS	NA
	Xylenes (total)	1,000	NA
	Ethyl Acetate	NS	NA
	Heptane	2,900 ⁽¹⁾	NA
	2-Hexanone	NS	NA
	4-Ethyltoluene	500 ⁽²⁾	NA
	Ethanol	NS	NA
	Isopropanol	NS	NA
	Chloromethane	NS	NA
	Chloroethane	NS	NA
	Carbon disulfide	NS	NA
	Trichlorofluoromethane	NS	NA
	Dichlorodifluoromethane	NS	NA
	Freon-113	NS	NA
	Freon-114	NS	NA
APH (ug/m³)	1,3-Butadiene	NS	5.20 U
	Methyl tert butyl ether	1950	5.20 U
	Benzene	115	11.0
	Toluene	2,700	8.00
	C5-C8 Aliphatics	2,900	860
	Ethylbenzene	370	5.20 U
	p/m-Xylene	1,000	10.0 U
	o-Xylene	1,000	5.20 U
	Naphthalene	30.5	5.20 U
	C9-C12 Aliphatics	3,400	1,200
	C9-C10 Aromatics	500	57

Notes:

ug/m³ - micrograms per cubic meters.

J - Estimated value; detected below quantitation limit.

NA - Sample not analyzed for the listed analyte.

NS - No MassDEP standards exist for this compound.

U - Compound was not detected at specified quantitation limit.

Values in **Bold** indicate the compound was detected.

APH - Air-Phase Petroleum Hydrocarbons.

TO - Toxic organics.

* - Soil Gas Screening Values are based on 50x the MassDEP Indoor Air Residential Threshold Values from Vapor Intrusion Guidance - Interim Draft, December 2010, which represents a conservative soil gas to indoor air dilution attenuation factor.

(1) - IATV for C5-C8 aliphatics used.

(2) - IATV for C9-C10 aromatics used.

Table 3. Summary of Analytical Results for Groundwater Samples - October 2011
Kiley Barrel, 5-7 Allen Street
Somerville, Massachusetts

Analysis	Analyte	Sample ID:		TRC-07
		GW-2	GW-3	10/5/2011
VOCs (ug/L)				
Acetone	50,000	50,000	10	U
tert-Amylmethyl Ether	NS	NS	0.50	U
Benzene	2,000	10,000	1.0	U
Bromobenzene	NS	NS	1.0	U
Bromoform	NS	NS	1.0	U
Bromodichloromethane	6	50,000	5.0	U
Bromomethane	700	50,000	5.0	U
Bromoform	7	800	2.0	U
2-Butanone (MEK)	50000	50000	10	U
n-Butylbenzene	7,000 ⁽¹⁾	50,000 ⁽¹⁾	1.0	U
sec-Butylbenzene	7,000 ⁽¹⁾	50,000 ⁽¹⁾	1.0	U
tert-Butylbenzene	7,000 ⁽¹⁾	50,000 ⁽¹⁾	1.0	U
tert-Butylethyl Ether	NS	NS	0.50	U
Carbon Disulfide	NS	NS	10	U
Carbon Tetrachloride	2	5,000	5.0	U
Chlorobenzene	200	1,000	1.0	U
Chlorodibromomethane	20	50,000	5.0	U
Chloroethane	NS	NS	2.0	U
Chloroform	50	20,000	2.0	U
Chloromethane	NS	NS	2.0	U
2-Chlorotoluene	NS	NS	1.0	U
4-Chlorotoluene	NS	NS	1.0	U
1,2-Dibromo-3-Chloropropane	NS	NS	5.0	U
1,2-Dibromomethane	2	50,000	0.50	U
Dibromomethane	NS	NS	1.0	U
1,2-Dichlorobenzene	2,000	2,000	1.0	U
1,3-Dichlorobenzene	2,000	50,000	1.0	U
1,4-Dichlorobenzene	200	8,000	1.0	U
Dichlorodifluoromethane	NS	NS	2.0	U
1,1-Dichloroethane	1,000	20,000	1.0	U
1,2-Dichloroethane	5	20,000	1.0	U
1,1-Dichloroethylene	80	30,000	1.0	U
cis-1,2-Dichloroethylene	100	50,000	1.0	U
trans-1,2-Dichloroethylene	90	50,000	1.0	U
1,2-Dichloropropane	3	50,000	1.0	U
1,3-Dichloropropane	NS	NS	0.50	U
2,2-Dichloropropane	NS	NS	1.0	U
1,1-Dichloropropene	NS	NS	2.0	U
cis-1,3-Dichloropropene	10 ⁽²⁾	200 ⁽²⁾	5.0	U
trans-1,3-Dichloropropene	10 ⁽²⁾	200 ⁽²⁾	5.0	U
Diethyl Ether	NS	NS	2.0	U
Diisopropyl Ether	NS	NS	0.50	U
1,4-Dioxane	6,000	50,000	50	U
Ethylbenzene	20,000	5,000	1.0	U
Hexachlorobutadiene	1	3,000	0.50	U
2-Hexanone	NS	NS	10	U
Isopropylbenzene	7,000 ⁽¹⁾	50,000 ⁽¹⁾	1.0	U
p-Isopropyltoluene	7,000 ⁽¹⁾	50,000 ⁽¹⁾	1.0	U
MTBE	50,000	50,000	1.0	U
Methylene Chloride	10,000	50,000	5.0	U
MIBK	50,000	50,000	10	U
Naphthalene	1,000	20,000	2.0	U
n-Propylbenzene	7,000 ⁽¹⁾	50,000 ⁽¹⁾	1.0	U
Styrene	100	6,000	1.0	U
1,1,1,2-Tetrachloroethane	10	50,000	5.0	U
1,1,2,2-Tetrachloroethane	9	50,000	5.0	U
Tetrachloroethylene	50	30,000	1.0	U
Tetrahydrofuran	NS	NS	2.0	U
Toluene	50,000	40,000	1.0	U
1,2,3-Trichlorobenzene	NS	NS	2.0	U
1,2,4-Trichlorobenzene	2,000	50,000	1.0	U
1,1,1-Trichloroethane	4,000	20,000	1.0	U
1,1,2-Trichloroethane	900	50,000	1.0	U
Trichloroethylene	30	5,000	1.0	U
Trichlorofluoromethane	NS	NS	2.0	U
1,2,3-Trichloropropane	NS	NS	2.0	U
1,2,4-Trimethylbenzene	7,000 ⁽¹⁾	50,000 ⁽¹⁾	1.0	U
1,3,5-Trimethylbenzene	7,000 ⁽¹⁾	50,000 ⁽¹⁾	1.0	U
Vinyl Chloride	2	50,000	2.0	U
m+p-Xylene	9,000	5,000	2.0	U
o-Xylene	9,000	5,000	1.0	U
Xylenes	9,000	5,000	2.0	U
PCBs (ug/L)				
PCB 1016	5	10	0.20	U
PCB 1221	5	10	0.20	U
PCB 1232	5	10	0.20	U
PCB 1242	5	10	0.20	U
PCB 1248	5	10	0.20	U
PCB 1254	5	10	0.20	U
PCB 1260	5	10	0.20	U
PCB 1262	5	10	0.20	U
PCB 1268	5	10	0.20	U
Total PCBs	5	10	0.20	U
Carbon (ug/L)				
Total Organic Carbon	NS	NS	1,000	U

Notes:

ug/L = micrograms per liter.

1- Estimated value

NS = No MassDEP standards exist for this compound

U = Compound was not detected at specified quantitation level

Values in Bold indicate the compound was detected.

Values shown in Bold and Shaded type represent values or more of the total MAsDHP Method 1 standards.

VOCs = Volatile Organic Compounds

PCBs = Polychlorinated Biphenyls

(1) = MassDEP Method 1 standards for C9-C10 aromatic hydrocarbons used

(2) = MassDEP Method 1 for 1,3-Dichloropropene used

ATTACHMENT A

MASSDEP NOTICE OF ENVIRONMENTAL SAMPLING FORM (BWSC 123)



NOTICE OF ENVIRONMENTAL SAMPLING
As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

BWSC 123

This Notice is Related to
Release Tracking Number

3 2849

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: 20-22 Prospect Street (Former Kiley Barrel Site)

City/Town: Somerville Zip Code: 02143

B. This notice is being provided to the following party:

1. Name: Mr. Zack Wang, ZMW Properties

2. Street Address: PO Box 43245

City/Town: Somerville Zip Code: 02143

C. This notice is being given to inform its recipient (the party listed in Section B):

- 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
- 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
- 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 5-7 Allen Street

City/Town: Somerville Zip Code: 02143

2. MCP phase of work during which the sampling will be/has been conducted:

- | | |
|--|---|
| <input checked="" type="checkbox"/> Immediate Response Action | <input type="checkbox"/> Phase III Feasibility Evaluation |
| <input type="checkbox"/> Release Abatement Measure | <input type="checkbox"/> Phase IV Remedy Implementation Plan |
| <input type="checkbox"/> Utility-related Abatement Measure | <input type="checkbox"/> Phase V/Remedy Operation Status |
| <input type="checkbox"/> Phase I Initial Site Investigation | <input type="checkbox"/> Post-Class C Operation, Maintenance and Monitoring |
| <input checked="" type="checkbox"/> Phase II Comprehensive Site Assessment | <input type="checkbox"/> Other _____ |
- (specify)

3. Description of property where sampling will be/has been conducted:

residential commerical industrial school/playground Other _____
(specify)

4. Description of the sampling locations and types (e.g., soil, groundwater) to the extent known at the time of this notice.

-TRC conducted one round of soil gas sampling from the monitor point installed in the basement of 5 Allen Street. The soil gas sample was analyzed for volatile organic compounds (VOCs).

-TRC also conducted one round of indoor air sampling from the basement. An additional air sample was collected from an outdoor upwind location. Air samples were analyzed for VOCs.

-TRC conducted one round of groundwater sampling from the monitoring well, TRC-07. The groundwater sample was analyzed for VOCs, polychlorinated biphenyls (PCBs), and total organic carbon (TOC).

E. Contact information related to the party providing this notice:

Contact Name: Steven Azar, City of Somerville Senior Planner

Street Address: 93 Highland Avenue

City/Town: Somerville, MA Zip Code: 02143

Telephone: (617) 625-6600 Email: SAzar@somervillema.gov

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation under the Massachusetts Contingency Plan at a property on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/dep/cleanup/oview.htm>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://mass.gov/dep/about/region/schedule.htm> if you would like to make an appointment to see these files. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

ATTACHMENT B

**LABORATORY ANALYTICAL
REPORTS**

Project Name: KILEY BARREL**Lab Number:** L1116329**Project Number:** 113338**Report Date:** 10/21/11**SAMPLE RESULTS**

Lab ID:	L1116329-03	Date Collected:	10/07/11 14:17
Client ID:	5ALLB	Date Received:	10/07/11
Sample Location:	SOMERVILLE, MA	Field Prep:	Not Specified
Matrix:	Air		
Anaytical Method:	101,TO15-SIM		
Analytical Date:	10/13/11 20:33		
Analyst:	RY		

Parameter	Results	ppbV		ug/m3		Qualfier	Dilution Factor
		RL	MDL	RL	MDL		
MCP Volatile Organics in Air by SIM - Mansfield Lab							
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--	1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--	1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--	1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--	1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--	1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--	1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--	1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--	1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--	1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--	1
1,4-Dichlorobenzene	0.204	0.020	--	1.23	0.120	--	1
1,4-Dioxane	ND	0.100	--	ND	0.360	--	1
Acetone	3.58	1.00	--	8.50	2.38	--	1
Benzene	0.127	0.100	--	0.406	0.319	--	1
Bromodichloromethane	ND	0.020	--	ND	0.134	--	1
Bromoform	ND	0.020	--	ND	0.207	--	1
Bromomethane	ND	0.020	--	ND	0.078	--	1
Carbon tetrachloride	0.066	0.020	--	0.415	0.126	--	1
Chlorobenzene	ND	0.020	--	ND	0.092	--	1
Chloroform	0.023	0.020	--	0.112	0.098	--	1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--	1
Dibromochloromethane	ND	0.020	--	ND	0.170	--	1



Serial_No:10211107:58

Project Name: KILEY BARREL

Lab Number: L1116329

Project Number: 113338

Report Date: 10/21/11

SAMPLE RESULTS

Lab ID:	L1116329-03	Date Collected:	10/07/11 14:17
Client ID:	5ALLB	Date Received:	10/07/11
Sample Location:	SOMERVILLE, MA	Field Prep:	Not Specified

Parameter	ppbV			ug/m3			Dilution Factor
	Results	RL	MDL	Results	RL	MDL	Qualifier
MCP Volatile Organics in Air by SIM - Mansfield Lab							
Ethylbenzene	0.087	0.020	--	0.378	0.087	--	1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--	1
2-Butanone	0.318	0.200	--	0.938	0.590	--	1
4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--	1
Methylene chloride	ND	1.40	--	ND	4.86	--	1
Methyl tert butyl ether	ND	0.020	--	ND	0.072	--	1
Naphthalene	0.188	0.050	--	0.986	0.262	--	1
p/m-Xylene	0.267	0.040	--	1.16	0.174	--	1
o-Xylene	0.102	0.020	--	0.443	0.087	--	1
Styrene	0.038	0.020	--	0.162	0.085	--	1
Tetrachloroethene	0.050	0.020	--	0.339	0.136	--	1
Toluene	0.822	0.050	--	3.10	0.188	--	1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--	1
Trichloroethene	ND	0.020	--	ND	0.107	--	1
Vinyl chloride	ND	0.020	--	ND	0.051	--	1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	106		60-140
bromochloromethane	103		60-140
chlorobenzene-d5	102		60-140

Project Name: KILEY BARREL

Project Number: 113338

Lab Number: L1116329

Report Date: 10/21/11

SAMPLE RESULTS

Lab ID: L1116329-03
 Client ID: 5ALLB
 Sample Location: SOMERVILLE, MA
 Matrix: Air
 Analytical Method: 96,APH
 Analytical Date: 10/13/11 20:33
 Analyst: RY

Date Collected: 10/07/11 14:17
 Date Received: 10/07/11
 Field Prep: Not Specified

Quality Control Information

Sample Type:	4 Hour Composite
Sample Container Type:	Canister - 6 Liter
Sampling Flow Controller:	Mechanical
Sampling Zone:	Unknown
Sampling Flow Meter RPD of pre & post-sampling calibration check:	<=20%
Were all QA/QC procedures REQUIRED by the method followed?	Yes
Were all performance/acceptance standards for the required procedures achieved?	Yes
Were significant modifications made to the method as specified in Sect 11.1.2?	No

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbons in Air - Mansfield Lab						
1,3-Butadiene	ND		ug/m3	2.0	--	1
Methyl tert butyl ether	ND		ug/m3	2.0	--	1
Benzene	ND		ug/m3	2.0	--	1
Toluene	3.1		ug/m3	2.0	--	1
C5-C8 Aliphatics, Adjusted	ND		ug/m3	12	--	1
Ethylbenzene	ND		ug/m3	2.0	--	1
p/m-Xylene	ND		ug/m3	4.0	--	1
o-Xylene	ND		ug/m3	2.0	--	1
Naphthalene	ND		ug/m3	2.0	--	1
C9-C12 Aliphatics, Adjusted	37		ug/m3	14	--	1
C9-C10 Aromatics Total	ND		ug/m3	10	--	1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	102		50-200
Bromochloromethane	105		50-200
Chlorobenzene-d5	99		50-200



Project Name: KILEY BARREL

Lab Number: L1116329

Project Number: 113338

Report Date: 10/21/11

SAMPLE RESULTS

Lab ID: L1116329-06 D Date Collected: 10/07/11 15:29
 Client ID: SG-3 Date Received: 10/07/11
 Sample Location: SOMERVILLE, MA Field Prep: Not Specified
 Matrix: Soil_Vapor
 Analytical Method: 101,TO15-SIM
 Analytical Date: 10/13/11 22:52
 Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
MCP Volatile Organics in Air by SIM - Mansfield Lab								
1,1,1-Trichloroethane	ND	0.051	--	ND	0.280	--		2.563
1,1,2,2-Tetrachloroethane	ND	0.051	--	ND	0.352	--		2.563
1,1,2-Trichloroethane	ND	0.051	--	ND	0.280	--		2.563
1,1-Dichloroethane	ND	0.051	--	ND	0.208	--		2.563
1,1-Dichloroethene	ND	0.051	--	ND	0.203	--		2.563
1,2,4-Trichlorobenzene	ND	0.128	--	ND	0.950	--		2.563
1,2-Dibromoethane	ND	0.051	--	ND	0.394	--		2.563
1,2-Dichlorobenzene	ND	0.051	--	ND	0.308	--		2.563
1,2-Dichloroethane	ND	0.051	--	ND	0.208	--		2.563
1,2-Dichloropropane	ND	0.051	--	ND	0.237	--		2.563
1,3-Dichlorobenzene	ND	0.051	--	ND	0.308	--		2.563
1,4-Dichlorobenzene	0.569	0.051	--	3.42	0.308	--		2.563
1,4-Dioxane	ND	0.256	--	ND	0.922	--		2.563
Acetone	34.1	2.56	--	81.0	6.08	--		2.563
Benzene	3.53	0.256	--	11.3	0.818	--		2.563
Bromodichloromethane	ND	0.051	--	ND	0.344	--		2.563
Bromoform	ND	0.051	--	ND	0.530	--		2.563
Bromomethane	ND	0.051	--	ND	0.199	--		2.563
Carbon tetrachloride	0.062	0.051	--	0.387	0.323	--		2.563
Chlorobenzene	ND	0.051	--	ND	0.236	--		2.563
Chloroform	ND	0.051	--	ND	0.250	--		2.563
cis-1,2-Dichloroethene	ND	0.051	--	ND	0.203	--		2.563
cis-1,3-Dichloropropene	ND	0.051	--	ND	0.233	--		2.563
Dibromochloromethane	ND	0.051	--	ND	0.437	--		2.563



Project Name: KILEY BARREL
Project Number: 113338

Lab Number: L1116329
Report Date: 10/21/11

SAMPLE RESULTS

Lab ID:	L1116329-06	D	Date Collected:	10/07/11 15:29
Client ID:	SG-3		Date Received:	10/07/11
Sample Location:	SOMERVILLE, MA		Field Prep:	Not Specified

Parameter	ppbV			ug/m3			Dilution Factor
	Results	RL	MDL	Results	RL	MDL	Qualifier
MCP Volatile Organics in Air by SIM - Mansfield Lab							
Ethylbenzene	0.425	0.051	--	1.85	0.223	--	2.563
Hexachlorobutadiene	ND	0.128	--	ND	1.36	--	2.563
2-Butanone	2.52	0.513	--	7.43	1.51	--	2.563
4-Methyl-2-pentanone	ND	0.513	--	ND	2.10	--	2.563
Methylene chloride	ND	3.59	--	ND	12.5	--	2.563
Methyl tert butyl ether	0.436	0.051	--	1.57	0.185	--	2.563
Naphthalene	0.187	0.128	--	0.980	0.671	--	2.563
p/m-Xylene	0.912	0.102	--	3.96	0.443	--	2.563
o-Xylene	0.284	0.051	--	1.23	0.223	--	2.563
Styrene	0.864	0.051	--	3.68	0.218	--	2.563
Tetrachloroethene	ND	0.051	--	ND	0.348	--	2.563
Toluene	2.23	0.128	--	8.40	0.482	--	2.563
trans-1,2-Dichloroethene	ND	0.051	--	ND	0.203	--	2.563
trans-1,3-Dichloropropene	ND	0.051	--	ND	0.233	--	2.563
Trichloroethene	0.274	0.051	--	1.47	0.276	--	2.563
Vinyl chloride	ND	0.051	--	ND	0.131	--	2.563

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	101		60-140
bromochloromethane	96		60-140
chlorobenzene-d5	96		60-140

Project Name: KILEY BARREL
Project Number: 113338

Lab Number: L1116329
Report Date: 10/21/11

SAMPLE RESULTS

Lab ID:	L1116329-06	D	Date Collected:	10/07/11 15:29
Client ID:	SG-3		Date Received:	10/07/11
Sample Location:	SOMERVILLE, MA		Field Prep:	Not Specified
Matrix:	Soil_Vapor			
Analytical Method:	96,APH			
Analytical Date:	10/13/11 22:52			
Analyst:	RY			

Quality Control Information

Sample Type:	200 ml/minute Composite
Sample Container Type:	Canister - 2.7 Liter
Sampling Flow Controller:	Mechanical
Sampling Zone:	Unknown
Sampling Flow Meter RPD of pre & post-sampling calibration check:	<=20%
Were all QA/QC procedures REQUIRED by the method followed?	Yes
Were all performance/acceptance standards for the required procedures achieved?	Yes
Were significant modifications made to the method as specified in Sect 11.1.2?	No

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbons in Air - Mansfield Lab						
1,3-Butadiene	ND		ug/m3	5.2	--	2.6
Methyl tert butyl ether	ND		ug/m3	5.2	--	2.6
Benzene	11		ug/m3	5.2	--	2.6
Toluene	8.0		ug/m3	5.2	--	2.6
C5-C8 Aliphatics, Adjusted	860		ug/m3	31	--	2.6
Ethylbenzene	ND		ug/m3	5.2	--	2.6
p/m-Xylene	ND		ug/m3	10	--	2.6
o-Xylene	ND		ug/m3	5.2	--	2.6
Naphthalene	ND		ug/m3	5.2	--	2.6
C9-C12 Aliphatics, Adjusted	1200		ug/m3	36	--	2.6
C9-C10 Aromatics Total	57		ug/m3	26	--	2.6

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	99		50-200
Bromochloromethane	102		50-200
Chlorobenzene-d5	94		50-200

Project Name: KILEY BARREL

Lab Number: L1116329

Project Number: 113338

Report Date: 10/21/11

SAMPLE RESULTS

Lab ID:	L1116329-01	Date Collected:	10/07/11 12:58
Client ID:	UPWIND	Date Received:	10/07/11
Sample Location:	SOMERVILLE, MA	Field Prep:	Not Specified
Matrix:	Air		
Anaytical Method:	101,TO15-SIM		
Analytical Date:	10/13/11 19:24		
Analyst:	RY		

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
MCP Volatile Organics in Air by SIM - Mansfield Lab								
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Acetone	2.78	1.00	--	6.60	2.38	--		1
Benzene	0.138	0.100	--	0.441	0.319	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Carbon tetrachloride	0.067	0.020	--	0.421	0.126	--		1
Chlorobenzene	ND	0.020	--	ND	0.092	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1



Serial_No:10211107:58

Project Name: KILEY BARREL
Project Number: 113338

Lab Number: L1116329
Report Date: 10/21/11

SAMPLE RESULTS

Lab ID:	L1116329-01	Date Collected:	10/07/11 12:58
Client ID:	UPWIND	Date Received:	10/07/11
Sample Location:	SOMERVILLE, MA	Field Prep:	Not Specified

Parameter	ppbV			ug/m3			Dilution Factor
	Results	RL	MDL	Results	RL	MDL	Qualifier
MCP Volatile Organics in Air by SIM - Mansfield Lab							
Ethylbenzene	0.070	0.020	--	0.304	0.087	--	1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--	1
2-Butanone	ND	0.200	--	ND	0.590	--	1
4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--	1
Methylene chloride	ND	1.40	--	ND	4.86	--	1
Methyl tert butyl ether	ND	0.020	--	ND	0.072	--	1
Naphthalene	ND	0.050	--	ND	0.262	--	1
p/m-Xylene	0.200	0.040	--	0.869	0.174	--	1
o-Xylene	0.073	0.020	--	0.317	0.087	--	1
Styrene	ND	0.020	--	ND	0.085	--	1
Tetrachloroethene	0.055	0.020	--	0.373	0.136	--	1
Toluene	1.07	0.050	--	4.03	0.188	--	1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--	1
Trichloroethene	ND	0.020	--	ND	0.107	--	1
Vinyl chloride	ND	0.020	--	ND	0.051	--	1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	105		60-140
bromochloromethane	103		60-140
chlorobenzene-d5	102		60-140



Project Name: KILEY BARREL

Project Number: 113338

Lab Number: L1116329

Report Date: 10/21/11

SAMPLE RESULTS

Lab ID:	L1116329-01	Date Collected:	10/07/11 12:58
Client ID:	UPWIND	Date Received:	10/07/11
Sample Location:	SOMERVILLE, MA	Field Prep:	Not Specified
Matrix:	Air		
Analytical Method:	96,APH		
Analytical Date:	10/13/11 19:24		
Analyst:	RY		

Quality Control Information

Sample Type:	4 Hour Composite
Sample Container Type:	Canister - 6 Liter
Sampling Flow Controller:	Mechanical
Sampling Zone:	Unknown
Sampling Flow Meter RPD of pre & post-sampling calibration check:	<=20%
Were all QA/QC procedures REQUIRED by the method followed?	Yes
Were all performance/acceptance standards for the required procedures achieved?	Yes
Were significant modifications made to the method as specified in Sect 11.1.2?	No

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbons in Air - Mansfield Lab						
1,3-Butadiene	ND		ug/m3	2.0	--	1
Methyl tert butyl ether	ND		ug/m3	2.0	--	1
Benzene	ND		ug/m3	2.0	--	1
Toluene	3.9		ug/m3	2.0	--	1
C5-C8 Aliphatics, Adjusted	ND		ug/m3	12	--	1
Ethylbenzene	ND		ug/m3	2.0	--	1
p/m-Xylene	ND		ug/m3	4.0	--	1
o-Xylene	ND		ug/m3	2.0	--	1
Naphthalene	ND		ug/m3	2.0	--	1
C9-C12 Aliphatics, Adjusted	ND		ug/m3	14	--	1
C9-C10 Aromatics Total	ND		ug/m3	10	--	1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	102		50-200
Bromochloromethane	103		50-200
Chlorobenzene-d5	99		50-200

Project Name: KILEY BARREL**Lab Number:** L1116329**Project Number:** 113338**Report Date:** 10/21/11**SAMPLE RESULTS**

Lab ID:	L1116329-01	Date Collected:	10/07/11 12:58
Client ID:	UPWIND	Date Received:	10/07/11
Sample Location:	SOMERVILLE, MA	Field Prep:	Not Specified
Matrix:	Air		
Anaytical Method:	101,TO15-SIM		
Analytical Date:	10/13/11 19:24		
Analyst:	RY		

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
MCP Volatile Organics in Air by SIM - Mansfield Lab								
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Acetone	2.78	1.00	--	6.60	2.38	--		1
Benzene	0.138	0.100	--	0.441	0.319	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Carbon tetrachloride	0.067	0.020	--	0.421	0.126	--		1
Chlorobenzene	ND	0.020	--	ND	0.092	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1



Project Name: KILEY BARREL

Lab Number: L1116329

Project Number: 113338

Report Date: 10/21/11

SAMPLE RESULTS

Lab ID:	L1116329-01	Date Collected:	10/07/11 12:58
Client ID:	UPWIND	Date Received:	10/07/11
Sample Location:	SOMERVILLE, MA	Field Prep:	Not Specified

Parameter	ppbV			ug/m3			Dilution Factor
	Results	RL	MDL	Results	RL	MDL	Qualifier
MCP Volatile Organics in Air by SIM - Mansfield Lab							
Ethylbenzene	0.070	0.020	--	0.304	0.087	--	1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--	1
2-Butanone	ND	0.200	--	ND	0.590	--	1
4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--	1
Methylene chloride	ND	1.40	--	ND	4.86	--	1
Methyl tert butyl ether	ND	0.020	--	ND	0.072	--	1
Naphthalene	ND	0.050	--	ND	0.262	--	1
p/m-Xylene	0.200	0.040	--	0.869	0.174	--	1
o-Xylene	0.073	0.020	--	0.317	0.087	--	1
Styrene	ND	0.020	--	ND	0.085	--	1
Tetrachloroethene	0.055	0.020	--	0.373	0.136	--	1
Toluene	1.07	0.050	--	4.03	0.188	--	1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--	1
Trichloroethene	ND	0.020	--	ND	0.107	--	1
Vinyl chloride	ND	0.020	--	ND	0.051	--	1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	105		60-140
bromochloromethane	103		60-140
chlorobenzene-d5	102		60-140



Project Name: KILEY BARREL

Project Number: 113338

Lab Number: L1116329

Report Date: 10/21/11

SAMPLE RESULTS

Lab ID:	L1116329-01	Date Collected:	10/07/11 12:58
Client ID:	UPWIND	Date Received:	10/07/11
Sample Location:	SOMERVILLE, MA	Field Prep:	Not Specified
Matrix:	Air		
Analytical Method:	96,APH		
Analytical Date:	10/13/11 19:24		
Analyst:	RY		

Quality Control Information

Sample Type:	4 Hour Composite
Sample Container Type:	Canister - 6 Liter
Sampling Flow Controller:	Mechanical
Sampling Zone:	Unknown
Sampling Flow Meter RPD of pre & post-sampling calibration check:	<=20%
Were all QA/QC procedures REQUIRED by the method followed?	Yes
Were all performance/acceptance standards for the required procedures achieved?	Yes
Were significant modifications made to the method as specified in Sect 11.1.2?	No

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbons in Air - Mansfield Lab						
1,3-Butadiene	ND		ug/m3	2.0	--	1
Methyl tert butyl ether	ND		ug/m3	2.0	--	1
Benzene	ND		ug/m3	2.0	--	1
Toluene	3.9		ug/m3	2.0	--	1
C5-C8 Aliphatics, Adjusted	ND		ug/m3	12	--	1
Ethylbenzene	ND		ug/m3	2.0	--	1
p/m-Xylene	ND		ug/m3	4.0	--	1
o-Xylene	ND		ug/m3	2.0	--	1
Naphthalene	ND		ug/m3	2.0	--	1
C9-C12 Aliphatics, Adjusted	ND		ug/m3	14	--	1
C9-C10 Aromatics Total	ND		ug/m3	10	--	1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	102		50-200
Bromochloromethane	103		50-200
Chlorobenzene-d5	99		50-200



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Kiley Barrel

Sample Description:

Work Order: 11J0173

Date Received: 10/5/2011

Field Sample #: TRC-7

Sampled: 10/5/2011 14:05

Sample ID: 11J0173-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	µg/L	1	RL-07, V-05, V-16	SW-846 8260C	10/6/11	10/11/11 22:24	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	10/6/11	10/11/11 22:24	MFF
Benzene	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 22:24	MFF
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 22:24	MFF
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 22:24	MFF
Bromodichloromethane	ND	5.0	µg/L	1	RL-07	SW-846 8260C	10/6/11	10/11/11 22:24	MFF
Bromoform	ND	5.0	µg/L	1	RL-07	SW-846 8260C	10/6/11	10/11/11 22:24	MFF
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 22:24	MFF
2-Butanone (MEK)	ND	10	µg/L	1	V-05	SW-846 8260C	10/6/11	10/11/11 22:24	MFF
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 22:24	MFF
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 22:24	MFF
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 22:24	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	10/6/11	10/11/11 22:24	MFF
Carbon Disulfide	ND	10	µg/L	1	RL-07	SW-846 8260C	10/6/11	10/11/11 22:24	MFF
Carbon Tetrachloride	ND	5.0	µg/L	1	RL-07	SW-846 8260C	10/6/11	10/11/11 22:24	MFF
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 22:24	MFF
Chlorodibromomethane	ND	5.0	µg/L	1	RL-07	SW-846 8260C	10/6/11	10/11/11 22:24	MFF
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 22:24	MFF
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 22:24	MFF
Chloromethane	ND	2.0	µg/L	1	V-05	SW-846 8260C	10/6/11	10/11/11 22:24	MFF
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 22:24	MFF
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 22:24	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1	RL-07	SW-846 8260C	10/6/11	10/11/11 22:24	MFF
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	10/6/11	10/11/11 22:24	MFF
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 22:24	MFF
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 22:24	MFF
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 22:24	MFF
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 22:24	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 22:24	MFF
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 22:24	MFF
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 22:24	MFF
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 22:24	MFF
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 22:24	MFF
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 22:24	MFF
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 22:24	MFF
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	10/6/11	10/11/11 22:24	MFF
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 22:24	MFF
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 22:24	MFF
cis-1,3-Dichloropropene	ND	5.0	µg/L	1	RL-07	SW-846 8260C	10/6/11	10/11/11 22:24	MFF
trans-1,3-Dichloropropene	ND	5.0	µg/L	1	RL-07	SW-846 8260C	10/6/11	10/11/11 22:24	MFF
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 22:24	MFF
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	10/6/11	10/11/11 22:24	MFF
1,4-Dioxane	ND	50	µg/L	1		SW-846 8260C	10/6/11	10/11/11 22:24	MFF

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Kiley Barrel

Sample Description:

Work Order: 11J0173

Date Received: 10/5/2011

Field Sample #: TRC-7

Sampled: 10/5/2011 14:05

Sample ID: 11J0173-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 22:24	MFF
Hexachlorobutadiene	ND	0.50	µg/L	1		SW-846 8260C	10/6/11	10/11/11 22:24	MFF
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	10/6/11	10/11/11 22:24	MFF
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 22:24	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 22:24	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 22:24	MFF
Methylene Chloride	ND	5.0	µg/L	1	RL-07	SW-846 8260C	10/6/11	10/11/11 22:24	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	10/6/11	10/11/11 22:24	MFF
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 22:24	MFF
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 22:24	MFF
Styrene	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 22:24	MFF
1,1,1,2-Tetrachloroethane	ND	5.0	µg/L	1	RL-07	SW-846 8260C	10/6/11	10/11/11 22:24	MFF
1,1,2,2-Tetrachloroethane	ND	5.0	µg/L	1	RL-07	SW-846 8260C	10/6/11	10/11/11 22:24	MFF
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 22:24	MFF
Tetrahydrofuran	ND	2.0	µg/L	1	V-05	SW-846 8260C	10/6/11	10/11/11 22:24	MFF
Toluene	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 22:24	MFF
1,2,3-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 22:24	MFF
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 22:24	MFF
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 22:24	MFF
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 22:24	MFF
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 22:24	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 22:24	MFF
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 22:24	MFF
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 22:24	MFF
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 22:24	MFF
Vinyl Chloride	ND	2.0	µg/L	1	L-04	SW-846 8260C	10/6/11	10/11/11 22:24	MFF
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 22:24	MFF
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	10/6/11	10/11/11 22:24	MFF

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	86.5	70-130	
Toluene-d8	98.1	70-130	
4-Bromofluorobenzene	100	70-130	

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Project Location: Kiley Barrel

Sample Description:

Work Order: 11J0173

Date Received: 10/5/2011

Field Sample #: TRC-7

Sampled: 10/5/2011 14:05

Sample ID: 11J0173-04

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	10/7/11	10/10/11 16:18	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	10/7/11	10/10/11 16:18	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	10/7/11	10/10/11 16:18	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	10/7/11	10/10/11 16:18	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	10/7/11	10/10/11 16:18	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	10/7/11	10/10/11 16:18	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	10/7/11	10/10/11 16:18	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	10/7/11	10/10/11 16:18	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	10/7/11	10/10/11 16:18	JMB
Surrogates		% Recovery	Recovery Limits	Flag					
Decachlorobiphenyl [1]		80.9	30-150						
Decachlorobiphenyl [2]		80.5	30-150						
Tetrachloro-m-xylene [1]		89.5	30-150						
Tetrachloro-m-xylene [2]		87.2	30-150						

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Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Organic Carbon	ND	1.0	mg/L	1		SM 5310B	10/6/11	10/6/11 9:00	LL